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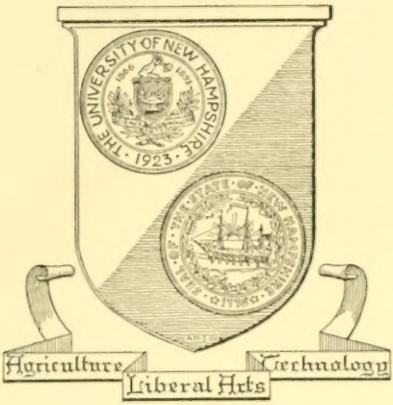

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Bulletin 308 July, 1938

THE UNIVERSITY OF NEW HAMPSHIRE
AGRICULTURAL EXPERIMENT STATION
Department of Agricultural Chemistry

Inspection of Commercial Feeding Stuffs

1938

Made for the
State Department of Agriculture

By T. O. Smith and H. A. Davis

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The University of New Hampshire
Durham, N. H.

INSPECTION OF COMMERCIAL FEEDING STUFFS

Made for the

STATE DEPARTMENT OF AGRICULTURE

The inspection of commercial feeding stuffs reported in this bulletin was made under the direction of Honorable Andrew L. Felker, Commissioner of Agriculture. Mr. E D. Sanborn, State Inspector, collected samples of 471 brands of feeding stuffs which were offered for sale in the State during the year ending June, 1938. This is the largest number of samples analyzed during any inspection year to date. The 471 samples represent brands of 137 manufacturers.

THE LAW

The New Hampshire law, entitled an Act to Regulate the Sale of Concentrated Commercial Feeding Stuffs, requires every manufacturer or dealer who shall sell or offer for sale any concentrated commercial feeding stuff to furnish with each package a clearly printed statement certifying the net weight of the feed contained in the package, the brand name or trademark under which the feed is sold, the name and address of the manufacturer, the ingredients of which the feed is composed, and a chemical analysis stating the minimum percentage only of protein, fat and carbohydrates, and the maximum percentage only of crude fiber.

Manufacturers and jobbers who ship concentrated commercial feeding stuffs into the State are required to register each brand and to pay a license fee. Under the provisions of the law if the shipper fails to register, the dealer is responsible. Feeds manufactured in other states frequently pass through several middlemen before they reach the local distributor. Dealers who purchase feed for resale must assure themselves

the brands they purchase are properly registered or assume that responsibility.

In order to secure greater uniformity in the labeling of feeds and in the statement of ingredients, the Association of American Feed Control Officials has adopted definitions and standards. The Association has also approved twenty-one general regulations which "should be adopted by state officials as far as the statutes will permit." There are no conflicts in these regulations with the New Hampshire Feeding Stuffs Law. All manufacturers and dealers are therefore expected to conform to the regulations of the Association in all matters not specifically mentioned in the law.

THE INGREDIENTS

One sentence in the New Hampshire Feeding Stuffs Law reads as follows: "And shall state in bold type upon the container or a tag attached thereto, if a compounded feed, the names of the several ingredients therein contained." To avoid the misinterpretation or deception which may result from the manufacturer's using indefinite terms in listing the ingredients, the Association of American Feed Control Officials has adopted 135 official definitions of ingredients used in the compounding of feeding stuffs. These definitions are subject to frequent revision. At the present time there are also about 30 tentative definitions and a score of definitions that have been suggested for future discussion. Tentative definitions are those which have received favorable consideration, but have not yet been made official. The manufacturers are given an opportunity to express themselves freely on the accuracy of a definition before its adoption as official. At the twenty-ninth annual convention of the Association held in Washington, December 3 and 4, 1937, there were present 45 control officials from the various States and the Dominion of Canada, 17 representatives of the Federal Government and 72 representatives of feeding

stuffs manufacturers and other commercial agencies. The 135 definitions which have been adopted as official, and also the 21 general regulations referred to above, were published in the 1937 feeding stuffs bulletin, pp. 7-23, with a view to assisting the manufacturers in listing the ingredients with accuracy and uniformity. A limited number of copies of this bulletin is still available. A booklet containing these definitions may be obtained from the Secretary of the Association of American Feed Control Officials, College Park, Maryland.

A high degree of accuracy has already been attained by a considerable number of manufacturers. One manufacturer who offered for sale during the last inspection year more than the average number of brands, did not violate the official definitions in a single instance. A large number of manufacturers, however, are either careless or are not yet well informed concerning the Association's requirements. Some typical failures to conform to the official definitions are the following selected from the lists of ingredients furnished by the various manufacturers:

Gluten used to designate corn gluten feed or corn gluten meal.

Meal used to designate one of the more than 30 ingredients which by official definition contain the word meal.

Bran used to designate corn bran, rice bran, rye bran or wheat bran.

Oil used to designate one of the score of ingredients which by official or tentative definition contain the word oil.

Distillers' dried grains used to designate distillers' corn dried grains or distillers' rye dried grains.

Alfalfa used to designate alfalfa meal, alfalfa leaf meal, alfalfa stem meal or chopped alfalfa.

Middlings used to designate wheat middlings or oat middlings.

Carelessness in listing the ingredients may create sales resistance for the feed. The purchaser may assume that the manufacturer who is indefinite in printing the tag will be indifferent in filling the bag.

The chief purpose of the Feeding Stuffs Law is to protect the consumer against the inferior products which would doubtless soon appear on the market if the trade were not under state control. The law is primarily a correct-labelling act. It must not be assumed by the purchaser of feeding stuffs that every brand which meets the manufacturer's guarantee is a high-grade feed. The Feeding Stuffs Law does not prevent the sale of a low-grade feed if it is properly licensed and tagged and is offered for sale in compliance with the law. It would not be in the public interest to legislate against the sale of the lower-grade by-products. They can be fed profitably if bought at a price adjusted to their feeding value. The law does prevent an inferior feed being offered for sale as a high-grade product.

The dealer in purchasing feed from the manufacturer and the consumer in purchasing feed from the dealer should both specify: The feed delivered on this order must comply with the New Hampshire Feeding Stuffs Law. If the feed is not registered; if the protein, fat, carbohydrates and crude fiber are not guaranteed; and if the ingredients of which the feed is composed are not plainly stated on the bag, or a tag attached thereto, the purchaser is not protected by the state feeding stuffs law. He has no recourse under the feeding stuffs law if the feed which he purchases is of inferior quality.

The dealer who offers for sale a feeding stuff which has not been registered and which is not guaranteed in compliance with the law is probably indifferent to his customer's interests in other respects. He does not merit either the confidence or the patronage of the consumer.

The purchaser's co-operation in refusing to buy a feed which does not conform to the law in every respect will not only help in the enforcement of the law but will at the same time afford himself the protection of the law. If the buyer fails to assure himself the legal requirements have been met, he accepts the feeding stuff at his own risk. The state official charged with the enforcement of the feeding stuffs law is the Commissioner of Agriculture. All inquiries concerning the law and all matters relative to the registration of brands should be addressed to his office in Concord.

CLASSIFICATION

In classifying the feeding stuffs here reported, the class name under which they were offered to the consumer has been used. The classes are arranged alphabetically. Table I shows the number of brands in each class, the page on which the analysis may be found, the average price per 100 pounds, the average per cent of protein, the number of pounds of protein per $1.00, the number deficient by one-half per cent or more of protein, the average per cent fat, the number of pounds of fat per $1.00, and the number deficient by one-fourth per cent or more of fat.

The columns pounds of protein per $1.00 and pounds of fat per $1.00 are included for the convenience of consumers interested in the comparative cost of protein and fat in the different concentrates. They are not corrected for the varying amounts of the other constituents.

TABLE I

Class	Analyses on page	Number in class	Average price per 100 pounds	Average per cent protein	Pounds of protein per $1.00	Number deficient ½ per cent protein	Average per cent fat	Pounds of fat per $1.00	Number deficient ¼ per cent fat
Alfalfa Leaf Meal	14	1	2.45	20.66	8.4	0	2.41	1.0	0
Alfalfa Meal	14	5	2.33	17.91	7.7	1	2.00	0.9	1
Barley Feed	14	1	1.80	13.31	7.4	0	3.17	1.8	0
Calf Meal	15	10	3.83	22.10	5.8	1	4.56	1.2	0
36% Cottonseed Meal	17	1	1.90	36.16	19.0	0	6.38	3.4	0
41% Cottonseed Meal	17	8	1.92	41.13	21.4	0	6.43	3.3	0
Dairy Feed	18	131	1.95	20.89	10.7	11	4.01	2.1	26
Distillers' Corn Dried Grains	43	3	2.13	28.62	13.4	0	8.76	4.1	0
Fish Meal	43	2	3.63	60.64	16.7	0	8.82	2.4	0
Flaydry, Lactobavin Concentrate	43	1	7.00	24.30	3.5	0	0.11	0.02	1
Gluten Feed, Corn	43	5	1.75	27.96	16.0	0	2.26	1.3	0
Gluten Meal, Corn	44	2	2.15	43.40	20.2	0	3.71	1.7	0
Hominy Feed	44	2	1.68	10.01	6.0	0	6.82	4.1	0
Horse Feed	45	10	2.09	10.77	5.2	0	3.44	1.6	0
Kelp	46	1	3.50	5.17	1.5	0	0.31	0.01	0
Linseed Meal	46	4	2.69	34.09	12.7	0	5.34	2.0	0
Meat Scraps	46	6	2.43	48.34	19.9	1	10.05	4.1	0
Milk, Dried Skimmed	47	5	6.17	33.56	5.4	1	1.48	0.2	0
Oat Meal	48	5	2.06	14.14	6.9	1	5.59	2.7	0
Oat Mill Feed	48	7	1.22	5.08	4.2	1	1.29	1.1	3
Pig and Hog Feed	49	11	2.19	20.39	9.3	0	4.43	2.0	2
Poultry Feed	51	145	2.38	18.95	8.0	12	5.01	2.1	10
Rye Feed	78	1	....	16.99	....	0	3.00	....	0
Soybean Oil Meal	78	6	1.94	42.70	22.0	1	5.12	2.6	0
Stock Feed	79	15	1.74	9.92	5.7	0	4.21	2.4	1
Wheat Bran	81	33	1.66	15.96	9.6	5	4.34	2.6	0
Wheat Middlings	86	24	1.72	17.37	10.1	0	4.57	2.7	2
Wheat Mixed Feed	89	17	1.84	16.27	8.8	2	4.25	2.3	1
Wheat Red Dog	91	7	1.92	18.23	9.5	0	3.58	1.8	3
Wheat Shorts	92	2	1.73	16.40	9.4	1	4.44	2.6	1
		471				38			51

NUMBER OF SAMPLES FAILING TO COMPLY WITH THE LAW

Two hundred fourteen of the 471 brands analyzed failed to comply with the law in every respect, violating it on 277 counts. About eighty per cent of the violations, however, are negligible if considered on the basis of the value of the feed to the purchaser.

Eighteen brands were found more than one per cent below guarantee in the most valuable constituent, protein. Twenty brands were below guarantee more than one-half per cent but less than one per cent. Fourteen brands were less than one-half per cent below guarantee. The 52 brands found below guarantee in protein is equivalent to 11.0 per cent of the brands analyzed.

Ninety-seven brands or 20.6 per cent were below guarantee in fat; 46 of these were less than one-fourth per cent below guarantee.

Fifty-four brands contained an excessive amount of crude fiber. Seventy-one brands were below guarantee in carbohydrates. Three samples failed to carry the carbohydrates guarantee. In the analysis of a feeding stuff, the percentage of carbohydrates is usually determined indirectly. It is found by subtracting the sum of the percentages of protein, fat, moisture and ash from 100. It is obvious that an excess of protein or fat over the manufacturer's guarantee decreases the percentage of carbohydrates found. Nearly all of this year's carbohydrates deficiencies are due to the protein or fat or both exceeding the guarantee.

In the tabulation of the analytical figures, pps. 14 to 92 inclusive, those figures one-half per cent or more below guarantee in protein and one-fourth per cent or more below guarantee in fat are printed in bold-faced type.

Table II shows the percentage of samples failing to conform to the guarantee in each of the last thirteen years.

TABLE II

Year	Per cent below Guarantee in Protein	Per cent 0.50 or more below Guarantee in Protein	Per cent below Guarantee in Fat	Per cent 0.25 or more below Guarantee in Fat	Per cent High in Crude Fiber	Per cent low in Carbo-hydrates	Per cent with no Carbo-hydrates Guarantee
1926	24.0	16.0	14.0	10.0	6.0	6.5	22.5
1927	24.7	16.4	19.4	13.6	5.9	17.9	14.4
1928	29.8	20.7	13.6	9.3	7.9	10.6	11.7
1929	29.7	20.2	12.1	9.3	6.5	10.3	9.5
1930	17.9	13.1	12.0	8.0	3.9	16.5	16.2
1931	9.0	7.2	15.6	9.7	5.3	15.6	11.2
1932	3.2	1.4	13.1	8.1	2.8	15.5	16.9
1933	4.9	3.6	17.3	9.8	3.6	18.1	5.9
1934	6.4	3.4	11.0	7.1	9.8	16.4	6.6
1935	5.4	3.0	12.7	8.5	9.9	19.8	5.4
1936	8.1	5.2	13.8	8.3	12.2	18.0	0.5
1937	7.0	4.2	9.0	6.0	11.0	21.7	0.0
1938	11.0	8.1	20.6	10.8	11.5	15.1	0.6

REQUESTS FOR THE ANALYSIS OF FEEDING STUFFS BY INDIVIDUALS

Under the Feeding Stuffs Law the Agricultural Experiment Station is charged only with the analysis of samples of feeding stuffs collected by the State Inspector under the direction of the Commissioner of Agriculture. It does, however, each year analyze a considerable number of samples drawn by individuals representing stock purchased by them for their own use. The object of the purchaser who asks to have the sample analyzed is usually to satisfy himself whether the feed meets its guarantee and if it does not, to obtain evidence upon which to base a claim for shortage.

The Station can assume no responsibility for the sampling of these unofficial samples but can attest only the accuracy of the analysis of the sample as submitted. It is practically impossible to secure a representative sample of a feeding stuff composed of several ingredients varying widely in composition without the aid of a sampling tube for drawing the sample and proper equipment for mixing it. A feed may contain as one of its ingredients gluten meal averaging 40 per cent protein, and as another ingredient oat feed averaging five per cent protein. These materials are so different in physical condition that the shaking in transit tends to separate them even though they may have been perfectly mixed by the manufacturer before bagging. It is apparent that an accurate sample of a ton of this feed can only be had by drawing a core from several bags. The official method requires ten. Since a representative sample is as essential as an accurate analysis in judging the value of a shipment of feed, it is evident that a satisfactory adjustment can seldom be effected on the basis of an unofficial sample.

Notwithstanding the objections which may be raised to the analysis of samples taken without proper sampling equipment, the Station is disposed to continue this work as long as

there is evidence that it constitutes a useful service. The samples so submitted should be drawn from at least ten bags in a manner which will insure that the small lot sent for analysis is as accurately representative as possible of the larger lot from which it is taken. Because of the cost of labor and materials, an analysis is not usually warranted on a sample drawn from less than a one ton lot of feed.

A one pound sample is sufficient for the analysis. It should be sent in a glass jar or tin box to prevent the loss of fine particles and a change in the moisture content. In order that the Department may have a satisfactory record of the sample analyzed and may know whether or not the manufacturer and the dealer are complying with the requirements of the law, the following information should be submitted concerning each sample.

Brand .....

Manufacturer .....

Address .....

Guarantee:

Protein .....

Fat .....

Carbohydrates .....

Moisture .....

Ash .....

Crude Fiber .....

Ingredients .....

.....

.....

Dealer .....

Address .....

Number of bags in lot .....

Number of bags sampled .....

Price per 100 pounds .....

Your name .....

Your address .....

Your reason for requesting analysis .....

.....

Brand and Manufacturer		Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
		Protein	Fat	Carbo-hydrates	Ash	Moisture	Crude Fiber	
ALFALFA LEAF MEAL								
Fernando Valley Alfalfa Leaf Meal	G.	26.00	2.56	53.00	....	....	18.00	
Fernando Valley Milling and Supply Co. Los Angeles, Calif.	F.	26.66	2.41	57.69	11.25	7.99	....	
ALFALFA MEAL								
Quick Dehydrated Alfalfa Meal	G.	17.00	2.00	40.00	....	....	27.00	
A. B. Cable Co. Toledo, O.	F.	20.84	2.28	61.29	9.80	5.79	....	
Green Acres Brand Alfalfa Meal	G.	17.00	2.00	62.40	....	....	27.00	
Green Acres Farms Nazareth, Pa.	F.	18.41	2.44	60.20	11.45	7.39	....	
Superior Alfalfa Meal, Meadow Brook Farms Brand	F.	17.00	2.00	....	....	....	27.00	
Meadow Brook Farms Nazareth, Pa.	G.	19.09	2.31	62.26	10.58	5.76	23.77	
Alfalfa Meal	G.	17.00	1.50	59.00	....	....	32.00	
Pecos Valley Alfalfa Mill Co. Hagerman, N. M.	F.	**12.26**	**1.18**	71.95	6.81	7.80	36.05	
Velvet Brand Alfalfa Meal	G.	17.00	1.50	63.00	....	....	23.00	
Pecos Valley Alfalfa Mill Co. Hagerman, N. M.	F.	18.82	1.08	63.30	11.32	4.88	....	
BARLEY FEED								
Barley Feed	G.	14.00	3.00	71.00	....	....	12.00	
Quaker Oats Co. Chicago, Ill.	F.	13.31	3.17	70.84	3.56	9.12	7.83	

CALF MEAL								
Calf Manna Albers Bros. Milling Co. Seattle, Wash.	G. F.	25.00 28.67	4.00 4.28	53.00 51.70	.... 7.41	.... 7.94	5.00 3.85	Dried skimmed milk, oat meal, corn meal, soluble meat extract, linseed meal, hulled barley, wheat, wheat brown shorts, dextrose, soybean oil meal, cocoanut oil meal, cod liver oil, oyster shell flour, steamed bone meal, iodized salt, anise.
Wayne Calf Meal Allied Mills Chicago, Ill.	G. F.	24.00 26.83	4.00 4.77	52.00 52.34	.... 7.30	.... 8.76	7.00 6.59	Dried skimmed milk, cottonseed meal, corn gluten meal, cocoanut oil meal, wheat standard middlings, wheat bran, wheat red dog, soybean oil meal, limestone, salt, iron oxide, potassium iodide, cane molasses, sardine oil, steamed bone meal.
Pennant Brand Calf Ration E. W. Bailey & Co. Montpelier, Vt.	G. F.	15.00 14.17	4.00 3.91	60.00 63.57	.... 6.50	.... 11.85	7.00 7.32	Dried skimmed milk, wheat bran, soybean oil meal, white hominy feed, alfalfa leaf meal, cane molasses, cod liver oil, yellow corn meal, oats, linseed meal, cracked corn, salt, calcium carbonate, steamed bone meal.
Beacon Calf Grain Ration Beacon Milling Co. Cayuga, N. Y.	G. F.	15.00 15.37	4.00 4.34	50.00 62.46	.... 6.91	.... 10.92	10.00 7.57	Linseed meal, wheat bran, corn meal, crushed oats, molasses, cod liver oil, calcium carbonate, salt.

Brand and Manufacturer		Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
		Protein	Fat	Carbo-hydrates	Ash	Moisture	Crude Fiber	
Blatchford's Improved Calf Meal Blatchford Calf Meal Co. Waukegan, Ill.	G. F.	20.00 24.61	5.00 4.76	52.00 50.56	.... 10.40	.... 9.67	[illegible] 5.45	Anise, dried milk albumen, locust bean meal, fenugreek, rice polish, unpressed flaxseed, blood flour, cocoa, cocoanut oil meal, fish meal, soybean oil meal, wheat flour, potassium iodide, bean meal, barley meal, cottonseed meal, wheat flour middlings, linseed meal, cod liver oil, calcium carbonate, salt.
Eastern States Calf Starter Eastern States Farmers' Exchange Springfield, Mass.	G. F.	18.00 14.17	4.00 3.84	52.00 55.94	.... 5.36	.... 9.69	4.00 3.48	Yellow corn meal, oats, wheat bran, blood flour, dried skimmed milk, linseed meal, soybean oil meal, dicalcium phosphate, salt, sardine oil.
Granite State Calf Meal E. C. & W. L. Hopkins Greenfield, N. H.	G. F.	18.00 18.82	3.50 3.99	55.00 58.96	.... 7.54	.... 10.69	4.00 3.[illegible]	Corn meal, rolled oats, wheat bran, linseed meal, fish meal, dried skimmed milk, kelp, calcium carbonate, bone meal, cod liver oil.
Larro Calf Builder Larrowe Milling Co. Detroit, Mich.	G. F.	18.00 25.87	4.00 4.86	54.50 54.39	.... 6.61	.... 8.67	4.50 [illegible]	Oat meal, dried skimmed milk, yellow corn meal, wheat standard middlings, linseed meal, blood flour, cod liver oil, limestone, salt, soybean oil meal.
Merrimack Calf Meal Merrimack Farmers' Exchange Concord, N. H.	G. F.	20.00 22.29	[illegible] 4.76	[illegible] [illegible]	.... 4.14	.... 9.99	5.00 4.12	Soybean oil meal, oat groats, linseed meal, wheat red dog, hominy, dried blood, fish meal, anise, fenugreek, cod liver oil, dried milk.
Real Calf Meal Jacob Trinley & Sons Linfield, Pa.	G. F.	19.00 19.52	[illegible] 4.34	55.00 56.14	.... 9.84	.... 10.16	5.50 5.47	Oat meal, dried skimmed milk, alfalfa meal, linseed meal, wheat middlings, gluten feed, corn meal, bone meal, molasses, salt.

36% COTTONSEED MEAL							
Lovit Brand 36% Cottonseed Meal	G.	36.00	4.50	41.00	....	....	16.00
L. B. Lovitt & Co. .. .. Memphis, Tenn.	F.	36.16	6.38	44.45	5.91	7.10	....
41% COTTONSEED MEAL							
Empire 41% Cottonseed Meal	G.	41.00	5.50	38.00	....	....	13.00
E. T. Allen Co. ..... Atlanta, Ga.	F.	41.15	6.51	39.06	6.03	7.25	....
Cow-Eta Brand 41% Cottonseed Meal ..	G.	41.00	5.00	38.00	....	....	13.00
Ashcraft-Wilkinson Co. ..... Atlanta, Ga.	F.	41.15	6.19	39.79	6.73	6.14	....
Buckeye 41% Cottonseed Meal	G.	41.00	5.00	38.00	....	....	13.00
Buckeye Cotton Oil Co. ..... Cincinnati, O.	F.	41.15	6.64	38.48	7.02	6.71	....
Eastern States 41% Protein Cottonseed Meal	G.	41.00	5.00	36.00	....	....	13.00
Eastern States Farmers' Exchange ..... Springfield, Mass.	F.	41.33	5.74	40.25	6.10	6.58	....
Gold Dust Brand 41% Cottonseed Meal	G.	41.00	5.00	22.00	....	....	10.00
Georgia Distributing Co. ..... Atlanta, Ga.	F.	41.20	6.47	38.08	6.87	7.38	....
Cottonseed Meal, Dixie Brand	G.	41.00	5.00	26.00	....	....	12.00
Humphreys-Godwin Co. ..... Memphis, Tenn.	F.	40.59	6.31	39.13	6.98	6.99	....
Lovit Brand 41% Cottonseed Meal	G.	41.00	5.00	38.00	....	....	13.00
L. B. Lovitt & Co. ..... Memphis, Tenn.	F.	41.11	7.28	39.66	5.21	6.74	....
Golden Rod Brand Cottonseed Meal	G.	41.00	5.00	37.00	....	....	12.00
Perkins Oil Co. ..... Memphis, Tenn.	F.	41.37	6.31	38.50	7.37	6.45	....

Brand and Manufacturer		Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
		Protein	Fat	Carbo-hydrates	Ash	Mois-ture	Crude Fiber	
DAIRY FEED								
Pimanty 20% Dairy Feed	G.	20.00	3.50	51.00	....	....	11.00	Soybean oil meal, cottonseed meal, corn meal, corn distillers' dried grains, brewers' dried grains, corn gluten feed, oats, wheat bran, cane molasses, limestone, salt, steamed bone meal, iron oxide, potassium iodide.
Allied Mills	F.	21.36	4.63	58.06	7.52	8.43	10.09	
Chicago, Ill.								
Empire 16% Dairy Feed	G.	16.50	3.00	57.00	....	....	12.00	Distillers' corn dried grains, brewers' dried grains, soybean oil meal, corn gluten meal, corn gluten feed, cottonseed meal, corn meal, wheat bran, screenings from flax, wheat, corn, oats and barley, oat mill feed, cane molasses, limestone, salt.
Allied Mills	F.	19.57	3.85	58.48	8.61	9.49	10.62	
Chicago, Ill.								
Empire 20% Dairy Ration	G.	20.00	3.50	52.00	....	....	12.00	Distillers' corn dried grains, brewers' dried grains, soybean oil meal, corn gluten feed, cottonseed meal, corn meal, wheat bran, screenings from flax, wheat, corn, oats and barley, clipped oat by-products, cane molasses, limestone, salt.
Allied Mills	F.	22.20	4.39	56.93	8.06	8.42	11.41	
Chicago, Ill.								
June Pasture	G.	10.00	0.50	66.00	....	....	21.00	Alfalfa meal, beet molasses.
Allied Mills	F.	12.83	0.66	68.04	11.48	6.99	18.03	
Chicago, Ill.								
Wayne Amco 20% Dairy Ration	G.	20.00	4.00	54.00	....	....	9.00	Cottonseed meal, brewers' dried grains, distillers' corn dried grains, oats, corn gluten feed, corn meal, hominy meal, soybean oil meal, corn gluten meal, linseed meal, wheat bran, cane molasses, bone meal, limestone, salt, iron oxide, potassium iodide.
Allied Mills	F.	23.64	4.82	54.71	7.53	9.30	8.79	
Chicago, Ill.								

Wayne Amco 24% Dairy Ration ..... Allied Mills ..... Chicago, Ill.	G.	24.00	4.00	49.00	....	....	9.00	Cottonseed meal, corn gluten meal, distillers' corn dried grains, brewers' dried grains, corn gluten feed, linseed meal, soybean oil meal, peanut oil meal, oats, corn meal, hominy meal, wheat bran, cane molasses, steamed bone meal, limestone, salt, iron oxide, potassium iodide.
	F.	25.53	5.42	53.22	7.46	8.37	8.80	
Wayne Amco 12% Fitting Ration ..... Allied Mills ..... Chicago, Ill.	G.	12.00	3.50	59.00	....	....	9.00	Distillers' corn dried grains, corn meal, hominy meal, soybean oil meal, oats, linseed meal, wheat bran, brewers' dried grains, cane molasses, steamed bone meal, limestone, salt, iron oxide, potassium iodide.
	F.	14.67	4.38	65.08	6.35	9.52	7.29	
Bailey's 16% Dairy Ration ..... E. W. Bailey & Co. ..... Montpelier, Vt.	G.	16.00	5.00	60.00	....	....	9.00	Corn gluten feed, linseed meal, hominy feed, cottonseed meal, oats, wheat bran, bone meal, calcium carbonate, salt, molasses.
	F.	15.91	4.79	60.60	6.98	11.72	6.80	
Bailey's New Deal Dairy Ration ..... E. W. Bailey & Co. ..... Montpelier, Vt.	G.	20.00	5.00	58.00	....	....	11.00	Corn gluten feed, white hominy feed, brewers' dried grains, cottonseed meal, linseed meal, standard wheat middlings, wheat bran, oat meal mill by-products, salt, bone meal, calcium carbonate, molasses.
	F.	20.88	4.95	58.74	7.03	8.40	10.26	
Capital Dairy Ration Sweetened ..... E. W. Bailey & Co. ..... Montpelier, Vt.	G.	24.00	4.50	55.00	....	....	9.00	Corn gluten feed, linseed meal, hominy feed, cottonseed meal, oats, wheat bran, corn meal, soybean meal, bone meal, calcium carbonate, salt, molasses.
	F.	24.87	**4.19**	53.42	7.93	9.59	6.63	

Brand and Manufacturer		Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
		Protein	Fat	Carbo-hydrates	Ash	Mois-ture	Crude Fiber	
Favorite Dairy Ration Sweetened ..... E. W. Bailey & Co. ..... Montpelier, Vt.	G.	20.00	4.00	55.00	....	....	7.50	White hominy feed, cottonseed meal, linseed meal, corn meal, oats, wheat bran, soybean meal, corn gluten feed, standard wheat middlings, bone meal, calcium carbonate, salt, molasses.
	F.	21.67	4.24	56.57	7.51	10.01	6.38	
Barco 20% Dairy Ration ..... G. N. Bartemus Co. ..... Concord, N. H.	G.	20.00	4.50	55.00	....	....	7.50	Corn gluten feed, cottonseed meal, linseed meal, wheat bran, wheat standard middlings, corn meal, bone meal, oats, salt, lime flour.
	F.	21.54	**3.96**	56.44	7.38	10.68	6.87	
Barco 24% Dairy Ration Sweetened .... G. N. Bartemus Co. ..... Concord, N. H.	G.	24.00	5.00	55.00	....	....	9.00	Wheat bran, corn gluten feed, linseed meal, cottonseed meal, corn meal, oats, salt, lime flour, bone meal, molasses.
	F.	24.08	**4.05**	53.49	8.01	10.37	7.17	
Barco Fitting Ration ..... G. N. Bartemus Co. ..... Concord, N. H.	G.	14.00	4.00	58.00	....	....	8.00	Corn meal, oats, wheat bran, linseed meal, molasses, bone meal, salt, cod liver oil.
	F.	14.06	3.80	64.51	5.58	12.05	6.59	
Concord 20% Dairy Ration ..... G. N. Bartemus Co. ..... Concord, N. H.	G.	20.00	3.00	45.00	....	....	9.00	Corn gluten feed, corn gluten meal, cottonseed meal, linseed meal, wheat bran, corn meal, brewers' dried grains, molasses, bone meal, lime, salt.
	F.	21.41	3.28	56.90	7.56	10.85	7.76	
Henniker Fitting Ration ..... G. N. Bartemus Co. ..... Concord, N. H.	G.	11.20	3.10	50.00	....	....	11.00	Wheat bran, oat mill feed, barley, corn meal, linseed meal, molasses, bone meal, lime flour, salt.
	F.	11.91	**2.72**	66.75	8.11	10.51	12.29	
New Deal 20% Dairy Ration ..... G. N. Bartemus Co. ..... Concord, N. H.	G.	20.00	5.00	58.00	....	....	11.00	Corn gluten feed, corn meal, brewers' dried grains, cottonseed meal, linseed meal, wheat brown shorts, wheat bran, oat mill feed, salt, bone meal, calcium carbonate, molasses.
	F.	20.00	**4.46**	59.18	6.94	9.42	11.19	

Special 16% Dairy Ration G. N. Bartemus Co. Concord, N. H.	G. F.	16.00 16.46	3.70 3.70	48.00 64.14	.... 8.06	.... 7.64	13.00 13.73	Brewers' dried grains, corn gluten meal, corn gluten feed, soybean oil meal, linseed meal, distillers' corn dried grains, oat mill feed, corn meal, wheat bran, molasses, bone meal, salt, calcium carbonate.
Special 20% Dairy Ration G. N. Bartemus Co. Concord, N. H.	G. F.	20.00 21.19	3.65 3.46	48.00 57.45	.... 8.35	.... 9.55	10.00 9.13	Corn gluten feed, wheat brown shorts, oat mill feed, corn meal, wheat bran, cottonseed meal, salt, molasses, bone meal, calcium carbonate.
Auburn Dairy Feed Beacon Milling Co. Cayuga, N. Y.	G. F.	20.00 20.92	4.00 4.34	50.00 56.84	.... 8.88	.... 9.02	10.00 8.53	Corn gluten feed, linseed meal, soybean oil meal, oats, corn meal, grain screenings, cottonseed meal, wheat bran, barley, brewers' dried grains, distillers' corn dried grains, molasses, salt, calcium carbonate.
Beacon 20 Beacon Milling Co. Cayuga, N. Y.	G. F.	20.00 20.57	4.50 4.53	55.00 58.10	.... 7.46	.... 9.34	9.00 8.17	Linseed meal, cottonseed meal, soybean oil meal, corn gluten feed, corn gluten meal, corn meal, wheat bran, wheat middlings, distillers' corn dried grains, oats, barley, salt, calcium carbonate, molasses.

Brand and Manufacturer		Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
		Protein	Fat	Carbo-hydrates	Ash	Mois-ture	Crude Fiber	
Beacon Sweet 20	G.	20.00	4.00	50.00	....	....	9.00	Linseed meal, soybean oil meal, distillers' corn dried grains, cottonseed meal, wheat bran, wheat middlings, brewers' dried grains, corn gluten meal, corn gluten feed, barley, Corn meal, oats, molasses, calcium carbonate, salt.
Beacon Milling Co. ..... Cayuga, N. Y.	F.	20.09	4.35	57.13	8.62	9.81	7.[illegible]	
Beacon Test Cow Ration	G.	18.00	4.75	55.00	....	....	9.00	Linseed meal, cottonseed meal, distillers' corn dried grains, soybean oil meal, corn gluten feed, corn meal, wheat bran, oats, barley, molasses, salt, calcium carbonate.
Beacon Milling Co. ..... Cayuga, N. Y.	F.	19.13	5.14	58.81	7.05	9.87	7.68	
Berry's Special Dairy Ration	G.	20.00	4.00	50.00	....	....	12.00	Corn meal or hominy feed, corn gluten feed, cottonseed meal, wheat bran, brewers' dried grains, distillers' corn dried grains, oats, linseed meal, soybean oil meal, calcium carbonate, salt, molasses.
L. Clayton Berry ..... Lebanon, N. H.	F.	22.15	4.16	57.04	6.25	10.40	10.41	

V-D for Quality Feed Mixing Blatchford Calf Meal Co. Waukegan, Ill.	G. F.	31.00 31.09	5.00 6.47	50.00 43.90	.... 10.14	.... 8.40	5.75 5.44	Locust bean meal, anise, crushed flax seed. dried milk albumen, codfish residue meal, blood flour, cocoa, fenugreek, potassium, iodide, cod liver oil, rice polish, wheat flour middlings, cocoanut oil cake meal, soybean oil cake meal, steamed bone meal, linseed meal, salt.
Dunbar's Dairy Ration E. A. Cowee Co. Fitchburg, Mass.	G. F.	22.00 23.12	4.50 4.88	48.00 54.52	.... 8.32	.... 9.16	11.00 9.59	Wheat bran, linseed meal, cottonseed meal, brewers' dried grains, oats, hominy, corn gluten meal, bone meal, charcoal, calcium carbonate, salt.
Champion Dairy Ration G. B. Currier Co. Colebrook, N. H.	G. F.	24.00 **22.45**	4.75 4.57	50.00 55.32	.... 8.40	.... 9.26	8.50 8.36	Wheat bran, cottonseed meal, corn gluten feed, corn gluten meal, linseed meal, oats, corn meal or hominy, brewers' dried grains, distillers' dried grains, wheat middlings, salt, bone meal.
Danville 20% Dairy Ration Danville Grain Co. Danville, Vt.	G. F.	20.00 19.91	4.00 **3.27**	55.00 57.29	.... 8.66	.... 10.87	10.00 8.47	Linseed meal, cottonseed meal, corn gluten feed, standard wheat bran, standard wheat middlings, corn gluten meal, malt sprouts, oats, corn meal, molasses, calcium carbonate salt.
Delaware Fitting Ration Delaware Mills Deposit, N. Y.	G. F.	13.00 14.75	4.00 3.94	60.00 63.66	.... 5.19	.... 12.46	10.00 5.89	Molasses, wheat bran, wheat middlings, corn meal, oats, linseed meal, soybean oil meal, peanut oil meal, phosphatic calcium carbonate, salt.
Delaware Sweet 20% Dairy Feed Delaware Mills Deposit, N. Y.	G. F.	20.00 21.71	4.50 **3.77**	50.00 56.54	.... 7.59	.... 10.39	10.00 9.30	Cane molasses, linseed meal, corn gluten feed, corn gluten meal, cottonseed meal, soybean oil meal, distillers' corn dried grains, peanut oil meal, wheat bran, wheat middlings, hominy feed, oats, barley, phosphatic calcium carbonate, salt.

Brand and Manufacturer		Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
		Protein	Fat	Carbo-hydrates	Ash	Mois-ture	Crude Fiber	
Delaware Sweet 24% Dairy Feed ..... Delaware Mills ..... Deposit, N. Y.	G.	24.00	4.50	50.00	....	....	9.00	Cane molasses, corn gluten feed, corn gluten meal, linseed meal, cottonseed meal, soybean oil meal, distillers' corn dried grains, hominy feed, peanut oil meal, corn meal, wheat bran, wheat middlings, salt, phosphatic calcium carbonate.
	F.	24.04	**3.86**	56.66	5.65	9.79	7.83	
Delaware Sweet 20% Dairy Ration ..... Delaware Mills ..... Deposit, N. Y.	G.	20.00	4.00	50.00	....	....	10.00	Cane molasses, linseed meal, soybean oil meal, cottonseed meal, corn gluten feed, distillers' corn dried grains, wheat bran, wheat middlings, corn meal or hominy feed, oats, phosphatic calcium carbonate, salt.
	F.	20.58	**3.49**	57.86	8.61	9.46	9.55	
Indian Sweet 16% Dairy Feed ..... Delaware Mills ..... Deposit, N. Y.	G.	16.00	3.50	55.00	....	....	14.00	Molasses, wheat bran, wheat middlings, soybean oil meal, corn gluten feed, cottonseed meal, brewers' dried grains, alfalfa meal, grain screenings, oat feed, peanut oil meal, corn meal, phosphatic calcium carbonate, salt.
	F.	17.89	3.39	59.07	8.81	10.84	11.82	
Indian Sweet 20% Dairy Feed ..... Delaware Mills ..... Deposit, N. Y.	G.	20.00	4.00	50.00	....	....	12.00	Cane molasses, linseed meal, corn gluten feed, cottonseed meal, soybean oil meal, peanut oil meal, wheat bran, wheat middlings, corn meal, oat feed, distillers' corn dried grains, phosphatic calcium carbonate, salt.
	F.	21.19	3.77	57.43	8.08	9.53	10.13	
Indian Sweet 24% Dairy Feed ..... Delaware Mills ..... Deposit, N. Y.	G.	24.00	4.00	50.00	....	....	12.00	Cane molasses, corn gluten feed, linseed meal, cottonseed meal, soybean oil meal, peanut oil meal, corn meal, wheat bran, wheat middlings, distillers' corn dried grains, oat feed, salt, phosphatic calcium carbonate.
	F.	24.03	3.81	54.98	7.65	9.53	10.00	

Big 4 Feed	G.	12.00	2.50	62.00	....	....	16.00	Alfalfa meal, wheat bran, brewers' dried grains, beet pulp, molasses, salt, bone meal, calcium carbonate, potassium iodide.
Dietrich & Gambrill	F.	14.75	3.05	64.25	7.26	10.69	16.31	
Frederick, Md.								
D & G Dairy Feed	G.	20.00	4.00	54.00	....	....	12.00	Cottonseed meal, peanut meal, linseed meal, corn gluten feed, corn feed meal, wheat bran, grain screenings, clipped oat by-products, oat middlings, oat shorts, oat hulls, molasses, bone meal, calcium carbonate, salt, potassium iodide.
Dietrich & Gambrill	F.	20.09	3.82	57.15	8.43	10.51	9.47	
Frederick, Md.								
Gambrill's A 1 Dairy Feed	G.	24.00	4.60	51.00	....	....	9.00	Corn gluten feed, cottonseed meal, linseed meal, peanut meal, brewers' dried grains, wheat bran corn feed meal, wheat middlings, molasses, calcium carbonate, bone meal, salt, oats.
Dietrich & Gambrill	F.	24.12	4.88	53.96	7.67	9.37	7.74	
Frederick, Md.								
Gambrill's 16% Dairy Feed	G.	16.00	3.50	57.00	....	....	12.00	Cottonseed meal peanut meal, corn gluten feed, wheat bran, corn feed meal, wheat screenings, clipped oat by-products, oat middlings, oat shorts, oat hulls, molasses, bone meal, calcium carbonate, salt.
Dietrich & Gambrill	F.	17.29	3.74	60.08	8.68	10.21	11.41	
Frederick, Md.								
Pen-Mar Dairy Feed	G.	20.00	4.00	56.00	....	....	9.00	Corn gluten feed, cottonseed meal, linseed meal, peanut meal, brewers' dried grains, oats, corn feed meal, wheat bran, wheat middlings, molasses, calcium carbonate, bone meal, salt, potassium iodide.
Dietrich & Gambrill	F.	20.66	4.04	57.61	7.64	10.05	8.09	
Frederick, Md.								
Franklin Open Formula Dairy Ration								
W. E. Dunbar Sons	G.	20.00	4.00	50.00	....	....	9.00	Corn meal, wheat bran, corn distillers' grains, corn gluten feed, cottonseed meal, soybean oil meal, oats, molasses, salt, calcium phosphate.
Franklin, N. H.	F.	20.62	4.01	57.63	5.53	12.21	6.42	

Brand and Manufacturer		Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
		Protein	Fat	Carbo-hydrates	Ash	Mois-ture	Crude Fiber	
Eastern States Laying Ration Eastern States Farmers' Exchange Springfield, Mass.	G. F.	12.00 13.68	3.50 4.21	60.00 63.35	.... 6.04	.... 10.72	8.00 6.77	Oats, wheat bran, yellow corn meal, barley, cane molasses, alfalfa leaf meal, linseed meal, soybean oil meal, wheat germ oil meal, dicalcium phosphate, salt, sardine oil.
Eastern States Fulgrit Eastern States Farmers' Exchange Springfield, Mass.	G. F.	[illegible] [illegible]	4.00 4.35	52.00 56.58	.... 6.53	.... 10.16	8.50 7.07	Wheat bran, oats, yellow corn feed meal, cottonseed meal, soybean oil meal, cane molasses, corn gluten feed, distillers' corn dried grains, linseed meal, barley, wheat germ oil meal, dicalcium phosphate, salt.
Eastern States Highland 12 Eastern States Farmers' Exchange Springfield, Mass.	G. F.	12.00 14.75	2.75 3.88	60.00 64.94	.... 6.65	.... 9.78	8.00 8.00	Barley, wheat bran, hominy feed, cane molasses, oats, alfalfa leaf meal, linseed meal, brewers' dried grains, wheat germ oil meal, calcium carbonate, salt.
Eastern States Highland 20 Eastern States Farmers' Exchange Springfield, Mass.	G. F.	20.00 21.10	3.50 3.58	53.00 58.27	.... 7.60	.... 9.45	11.00 9.76	Oat mill feed, corn gluten feed, soybean oil meal, cottonseed meal, cane molasses, distillers' corn dried grains, barley, wheat bran, hominy feed, wheat germ oil meal, calcium carbonate, salt.
Eastern States Milkmore Eastern States Farmers' Exchange Springfield, Mass.	G. F.	24.00 25.44	4.50 4.50	48.00 53.04	.... 6.80	.... 10.22	9.00 7.76	Cottonseed meal, soybean oil meal, oats, wheat bran, corn gluten feed, cane molasses, distillers' corn dried grains, yellow corn feed meal, linseed meal, wheat germ oil meal, dicalcium phosphate, salt.
Eastern States Sixteen Eastern States Farmers' Exchange Springfield, Mass.	G. F.	16.00 17.21	4.00 4.36	57.00 61.79	.... 6.34	.... 10.30	8.00 7.03	Yellow corn feed meal, oats, wheat bran, distillers' corn dried grains, cane molasses, corn gluten feed, barley, cottonseed meal, linseed meal, soybean oil meal, wheat germ oil meal, dicalcium phosphate, salt.

Granger 20% Dairy Ration	G.	20.00	4.00	55.00	....	....	11.00	Wheat bran, brewers' dried grains, copra oil meal, corn meal or hominy feed, cottonseed meal, corn gluten feed, wheat middlings, cane molasses, oats, soybean oil meal, calcium carbonate, salt.
Elmore Milling Co. ..... Oneonta, N. Y.	F.	20.58	3.82	59.16	6.61	9.83	8.81	
Granger 24% Dairy Ration	G.	24.00	4.00	45.00	....	....	10.00	Wheat bran, brewers' dried grains, corn meal or hominy feed, cottonseed meal, corn gluten feed, wheat middlings, cane molasses, oats, soybean oil meal, calcium carbonate, salt.
Elmore Milling Co. ..... Oneonta, N. Y.	F.	24.34	3.92	55.61	7.21	8.92	9.38	
Waldorf 20% Dairy Ration	G.	20.00	4.00	50.00	....	....	11.00	Wheat bran, cocoanut oil meal, corn gluten feed, corn gluten meal, soybean oil meal, cottonseed meal, cane molasses, oats, wheat screenings, brewers' dried grains, calcium carbonate, salt.
Elmore Milling Co. ..... Oneonta, N. Y.	F.	18.91	4.00	61.00	6.73	9.36	11.35	
Eshelman Certified 20 Dairy Ration	G.	20.00	4.00	54.00	....	....	8.00	Corn gluten feed, hominy feed, oats, linseed meal, wheat bran, cottonseed meal, soybean oil meal, wheat middlings, distillers' corn dried grains, cane molasses, steamed bone meal, calcium carbonate, salt.
John W. Eshelman & Sons ..... Lancaster, Pa.	F.	21.80	4.00	57.22	7.32	9.66	7.54	
Eshelman Conestoga 20 Dairy Feed	G.	20.00	4.00	55.00	....	....	11.00	Cottonseed meal, wheat bran, cane molasses, corn gluten feed, brewers' dried grains, distillers' corn dried grains, soybean oil meal, linseed meal, wheat screenings, bone meal, calcium carbonate, salt.
John W. Eshelman & Sons ..... Lancaster, Pa.	F.	21.19	4.27	55.57	9.08	9.89	9.37	
Eshelman Red Rose 20 Dairy Feed	G.	20.00	4.00	55.00	....	....	11.00	Wheat bran, cottonseed meal, oats, corn gluten feed, cane molassess, brewers' dried grains, distillers' corn dried grains, corn meal, linseed meal, soybean oil meal, bone meal, calcium carbonate, salt.
John W. Eshelman & Sons ..... Lancaster, Pa.	F.	21.01	4.23	57.32	7.80	9.64	8.19	

Brand and Manufacturer		Pounds in 100 lbs. of Feeding Stuffs						Certified by manuafacturer to contain
		Protein	Fat	Carbo-hydrates	Ash	Mois-ture	Crude Fiber	
Eshelman Red Rose 24 Dairy Feed ..... John W. Eshelman & Sons ..... Lancaster, Pa.	G.	24.00	4.00	50.00	....	....	11.00	Cottonseed meal, wheat bran, corn gluten feed, cane molasses, corn gluten meal, oats, brewers' dried grains, distillers' corn dried grains, corn meal, linseed meal, soybean oil meal, bone meal, calcium carbonate, salt.
	F.	25.08	4.27	53.74	7.74	9.17	7.97	
Eshelman Red Rose Fitting Ration .... John W. Eshelman & Sons ..... Lancaster, Pa.	G.	12.00	3.50	61.00	....	....	7.00	Wheat bran, crushed oats, corn meal, hominy feed, linseed meal, soybean oil meal, cane molasses, steamed bone meal, calcium carbonate, salt.
	F.	14.01	4.19	64.29	6.78	10.73	6.37	
18% Dairy Ration ..... Farm Service Stores ..... Fitchburg, Mass.	G.	18.00	3.50	58.00	....	....	13.00	Corn meal, hominy, oats, linseed meal, soybean oil meal, cottonseed meal, corn gluten feed, brewers' dried grains, wheat bran, wheat screenings, oat middlings, malt sprouts, calcium carbonate, molasses, salt.
	F.	20.66	4.93	58.88	7.53	8.00	13.26	
Diamond C Dairy ..... Farm Service Stores ..... Fitchburg, Mass.	G.	20.00	4.00	53.00	....	....	9.00	Corn meal, hominy, wheat bran, mill run wheat screenings, oats, corn gluten feed, corn gluten meal, linseed meal, cottonseed meal, soybean oil meal, calcium carbonate, salt.
	F.	21.58	4.79	57.84	7.13	8.66	7.63	
Eventually Gold Medal Dairy Ration .... Farm Service Stores ..... Fitchburg, Mass.	G.	20.00	4.50	60.00	....	....	8.50	Wheat bran, wheat middlings, mill run screenings, oats, yellow corn meal, corn gluten feed, cottonseed meal, linseed meal, soybean oil meal, brewers' dried grains, corn distillers' grains, limestone, salt.
	F.	20.40	**4.13**	58.35	7.35	9.77	8.68	
Morrill's Dairy Ration ..... Farm Service Stores ..... Fitchburg, Mass.	G.	20.00	3.50	50.00	....	....	9.00	Corn gluten feed, linseed meal, oats, cottonseed meal, corn meal, wheat bran, salt, calcium carbonate.
	F.	22.28	4.15	57.92	6.15	9.50	7.67	

North Star 24% Dairy Feed Farm Service Stores Fitchburg, Mass.	G. F.	24.00 **22.53**	4.00 4.17	53.00 57.60	.... 6.19	.... 9.51	11.00 8.03	Corn meal, hominy, oats, soybean oil meal, brewers' dried grains, distillers' dried grains, wheat bran, mill run wheat screenings, corn gluten meal, corn gluten feed, cottonseed meal, linseed meal, molasses, calcium carbonate, barley, wheat screenings, bone meal, salt.
Wilbur Dairy Farm Service Stores Fitchburg, Mass.	G. F.	20.00 21.10	5.00 **4.39**	55.00 57.75	.... 6.08	.... 10.68	9.00 6.90	Corn meal, hominy, wheat bran, mill run screenings, cottonseed meal, brewers' dried grains, molasses, linseed meal, soybean oil meal, oats, corn gluten feed, salt, calcium carbonate.
Brookside 16 Dairy Ration First National Stores Somerville, Mass.	G. F.	16.00 18.56	3.50 3.37	57.00 58.23	.... 9.33	.... 10.51	12.00 10.92	Corn gluten meal, corn gluten feed, soybean oil meal, linseed meal, distillers' rye dried grains, oat meal mill by-products, hominy feed, screenings from wheat, barley and flax, wheat bran, cane molasses, steamed bone meal, calcium carbonate, salt.
Brookside 20 Dairy Ration First National Stores Somerville, Mass.	G. F.	20.00 23.95	3.50 4.08	55.00 51.95	.... 9.91	.... 10.11	10.00 8.49	Distillers' corn dried grains, corn gluten feed, linseed meal, cottonseed meal, soybean oil meal, wheat bran, wheat middlings, mill run wheat screenings, corn meal, cane molassses, steamed bone meal, calcium carbonate, salt.
Brookside 24 Dairy Ration First National Stores Somerville, Mass.	G. F.	24.00 25.43	4.00 4.05	52.00 51.48	.... 9.05	.... 9.99	10.00 8.52	Distillers' corn dried grains, corn gluten feed, linseed meal, cottonseed meal, soybean oil meal, wheat bran, wheat middlings, mill run wheat screenings, corn meal, cane molasses, steamed bone meal, calcium carbonate, salt.

Brand and Manufacturer		Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
		Protein	Fat	Carbo-hydrates	Ash	Moisture	Crude Fiber	
Royal 20% Dairy Ration ..... J. B. Garland & Son ..... Worcester, Mass.	G.	20.00	4.00	50.00	....	....	11.00	Soybean oil meal, corn gluten feed, distillers' dried grains, wheat bran, cottonseed meal, palm kernel meal, corn, oats, molasses, calcium carbonate, salt.
	F.	23.25	5.07	56.58	6.27	8.83	9.85	
Royal 24% Dairy Ration ..... J. B. Garland & Son ..... Worcester, Mass.	G.	24.00	4.00	50.00	....	....	11.00	Soybean oil meal, corn meal, oats, corn gluten feed, wheat, wheat bran, distillers' dried grains, cottonseed meal, palm kernel meal, molasses, calcium carbonate, salt.
	F.	26.18	5.18	52.68	6.79	9.17	9.57	
Our Mix Dairy Ration ..... Grafton County Feed Co. ..... North Haverhill, N. H.	G.	22.00	4.50	53.00	....	....	8.00	Hominy feed, wheat bran, brewers' dried grains, cottonseed meal, standard wheat middlings, corn gluten feed, soybean oil meal or linseed meal, molasses, salt, bone meal, calcium carbonate.
	F.	21.58	4.29	57.84	7.26	9.03	8.88	
Grandin's 20% Dairy Feed Sweetened .. D. H. Grandin Milling Co. ..... Jamestown, N. Y.	G.	20.00	4.00	55.00	....	....	10.00	Cane molasses, cottonseed meal, soybean oil meal, linseed meal, distillers' corn dried grains, corn gluten feed, wheat bran, wheat middlings, mill run wheat screenings, oats, corn meal, corn feed meal, hominy feed, steamed bone meal, calcium carbonate, salt, potassium iodide.
	F.	20.84	3.83	57.91	7.57	9.85	7.11	
Grandin's 14% Fitting Ration ..... D. H. Grandin Milling Co. ..... Jamestown, N. Y.	G.	14.00	3.50	60.00	....	....	9.00	Cod liver oil, cane molasses, fish meal, soybean oil meal, linseed meal, wheat bran, wheat middlings, mill run wheat screenings, yellow corn meal, hominy feed, crushed oats, barley, steamed bone meal, calcium carbonate, salt, potassium iodide.
	F.	13.82	3.75	63.90	8.43	10.10	7.00	

Grandin's Milk Maker D. H. Grandin Milling Co. Jamestown, N. Y.	G. F.	20.00 22.77	4.50 4.30	55.00 56.28	.... 7.17	.... 9.48	10.00 9.07	Dried beet pulp, cottonseed meal, soybean oil meal, linseed oil meal, corn gluten meal, corn gluten feed, distillers' corn dried grains, wheat bran, wheat middlings, mill run wheat screenings, yellow corn meal, hominy feed, oats, barley, steamed bone meal, calcium carbonate, salt, potassium iodide.
Grandin's Twin Six Dairy Feed D. H. Grandin Milling Co. Jamestown, N. Y.	G. F.	22.00 22.46	4.50 **4.07**	55.00 55.37	.... 8.76	.... 9.34	10.00 7.71	Cane molasses, cottonseed meal, soybean oil meal, linseed meal, distillers' corn dried grains, corn gluten feed, wheat bran, wheat middlings, mill run wheat screenings, alfalfa meal, oats, corn meal, corn feed meal, hominy feed, steamed bone meal, calcium carbonate, salt, potassium iodide.
M-S (Money Saver) 20% Dairy Feed D. H. Grandin Milling Co. Jamestown, N. Y.	G. F.	20.00 20.62	3.50 3.92	50.00 56.65	.... 9.21	.... 9.60	12.00 8.33	Cane molasses, cottonseed meal, soybean oil meal, linseed meal, corn gluten feed, distillers' corn dried grains, brewers' dried grains, wheat bran, wheat middlings, wheat screenings, corn feed meal, oats, barley, steamed bone meal, calcium carbonate, salt, potassium iodide.
Milky Way Dairy Feed 20% Great Atlantic & Pacific Tea Co. New York, N. Y.	G. F.	20.00 22.07	3.50 3.65	56.00 55.05	.... 10.35	.... 8.88	9.00 8.73	Corn feed meal, dried grains from barley, malt and corn, wheat bran, cottonseed meal, wheat standard middlings, oats, barley, molasses, linseed meal, corn gluten meal, corn gluten feed, calcium carbonate, salt, soybean oil meal, malt sprouts.

Brand and Manufacturer		Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
		Protein	Fat	Carbo-hydrates	Ash	Moisture	Crude Fiber	
Milky Way Dairy Feed 24%	G.	24.00	3.50	52.00	....	....	9.00	Corn feed meal, dried grains from barley, malt and corn, wheat bran, cottonseed meal, wheat standard middlings, oats, barley, molasses, linseed meal, corn gluten meal, corn gluten feed, calcium carbonate, salt, soybean oil meal, malt sprouts.
Great Atlantic & Pacific Tea Co.	F.	24.73	3.50	52.27	9.47	10.03	7.54	
New York, N. Y.								
20% Open Formula Dairy Feed	G.	20.00	4.00	53.00	....	....	12.00	Distillers' corn dried grains, oat feed, yellow hominy feed, cottonseed meal, cane molasses, corn gluten feed, soybean oil meal, wheat bran, calcium carbonate, salt.
E. C. & W. L. Hopkins	F.	20.71	4.09	57.59	8.12	9.49	11.74	
Greenfield, N. H.								
Granite State 20% Dairy Feed	G.	20.00	4.00	50.00	....	....	11.00	Corn meal, corn gluten feed, cottonseed meal, linseed meal, malt grain, wheat bran, soybean oil meal, distillers' dried grains, molasses, bone meal, oyster shell meal, kelp, oats, salt.
E. C. & W. L. Hopkins	F.	22.28	4.54	56.95	6.88	9.35	8.89	
Greenfield, N. H.								
Granite State 24% Dairy Feed	G.	24.00	4.00	48.00	....	....	10.00	Corn gluten feed, corn meal or hominy, linseed meal, wheat bran, cottonseed meal, malt grains, molasses, barley, oats, distillers' grains, soybean meal, bone meal, calcium carbonate, kelp.
E. C. & W. L. Hopkins	F.	25.22	4.00	52.54	8.43	9.81	8.87	
Greenfield, N. H.								
Granite State Fitting Ration	G.	12.00	3.50	54.00	....	....	8.00	Wheat bran, wheat middlings, corn meal, hominy, molasses, oats, linseed meal, soybean oil meal, calcium carbonate, kelp.
E. C. & W. L. Hopkins	F.	15.10	4.05	62.60	6.79	11.46	6.35	
Greenfield, N. H.								
P and Q 20% Dairy	G.	20.00	3.50	50.00	....	....	11.00	Wheat bran, wheat middlings, corn gluten meal, distillers' dried grain, soybean oil meal, cottonseed meal, oat feed, calcium carbonate, salt, molasses.
E. C. & W. L. Hopkins	F.	20.79	3.45	56.36	9.57	9.83	10.94	
Greenfield, N. H.								

Swain's Dairy Feed E. C. & W. L. Hopkins Greenfield, N. H.	G. F.	20.00 21.84	4.00 4.01	55.00 57.28	.... 6.70	.... 10.17	9.00 8.96	Linseed meal, cottonseed meal, corn meal, corn gluten meal, oats, wheat bran, dried beet pulp, calcium carbonate, salt.
Hubbard's Sunshine Concentrate Hubbard Milling Co. Mankato, Minn.	G. F.	32.00 **31.42**	5.00 **4.18**	40.00 42.05	.... 13.48	.... 8.87	7.00 6.23	Copra oil meal, peanut oil meal, dried buttermilk, cod liver meal, soybean oil meal, wheat germ meal, fish meal, linseed meal, wheat flour middlings, alfalfa leaf meal, cottonseed meal, bone meal, potassium iodide, iron oxide, copper sulphate, manganese sulphate, sodium bicarbonate, calcium carbonate, salt.
Johnson's Dairy Feed Ralph P. Johnson & Son Potter Place, N. H.	G. F.	16.00 22.77	3.00 3.92	56.00 55.66	.... 7.72	.... 9.93	9.00 6.74	Corn meal, linseed meal, cottonseed meal, oats, wheat bran, corn gluten feed, salt.
Apex 20% Dairy Ration Kasco Mills Waverly, N. Y.	G. F.	20.00 22.20	3.50 3.32	50.00 56.70	.... 8.34	.... 9.44	12.00 9.24	Soybean oil meal, cottonseed meal, corn gluten feed, corn gluten meal, wheat bran, wheat screenings, oat mill feed, malt sprouts, brewers' dried grains, distillers' corn dried grains, cane molasses, salt, calcite.
Beatsall Milk Grains Kasko Mills Waverly, N. Y.	G. F.	22.00 23.73	4.00 **3.37**	50.00 55.39	.... 8.06	.... 9.45	10.00 6.85	Wheat bran, wheat middlings, linseed meal, corn gluten feed, cottonseed meal, soybean oil meal, hominy feed, salt, calcite, beet pulp, molasses, corn gluten meal, distillers' corn dried grains.
Kasco Fitting Ration Kasco Mills Waverly, N. Y.	G. F.	14.00 16.20	4.00 3.86	55.00 62.38	.... 6.61	.... 10.95	8.00 6.91	Wheat bran, corn feed meal, hominy feed, barley, oats, linseed meal, soybean oil meal cane molasses, bone meal, salt, calcite.

Brand and Manufacturer		Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
		Protein	Fat	Carbo-hydrates	Ash	Moisture	Crude Fiber	
Kasco Open Formula 20% Dairy Ration Kasco Mills Waverly, N. Y.	G. F.	20.00 21.84	3.50 4.02	50.00 56.79	.... 8.33	.... 9.02	10.00 7.91	Wheat bran, wheat middlings, hominy feed, barley oats, malt sprouts, brewers' dried grains, distillers' corn dried grains, corn gluten feed, soybean oil meal, cottonseed meal, cane molasses, salt, calcite.
Kasco Sweet 16% Dairy Feed Kasco Mills Waverly, N. Y.	G. F.	16.00 19.96	3.50 3.17	50.00 59.41	.... 8.51	.... 8.95	12.00 10.65	Wheat bran, corn gluten feed, corn gluten meal, cottonseed meal, soybean oil meal, oats, barley, wheat screenings, corn meal, oat mill feed, malt sprouts, brewers' dried grains, distillers' corn dried grains, molasses, salt, calcite.
Larrowe's 16 Dairy Feed Larrowe Milling Co. Detroit, Mich.	G. F.	16.00 17.77	3.00 3.73	63.00 63.20	.... 5.83	.... 9.47	11.00 10.59	Cottonseed meal, corn gluten feed, distillers' corn dried grains, wheat standard middlings, linseed meal, yellow corn meal, dried beet pulp, wheat bran, salt.
Larro 16 Ready Ration Larrowe Milling Co. Detroit, Mich.	G. F.	20.00 21.36	3.75 3.77	57.00 59.85	.... 6.54	.... 8.48	12.00 10.39	Cottonseed meal, yellow corn meal, wheat standard middlings, soybean oil meal, linseed meal, corn gluten feed, distillers' corn dried grains, dried beet pulp, wheat bran, limestone, salt.
B B Hi-Test Dairy Feed Maritime Milling Co. Buffalo, N. Y.	G. F.	20.00 20.05	4.00 4.32	50.00 56.47	.... 8.54	.... 10.62	12.00 10.39	Brewers' dried grains, cottonseed meal, corn gluten feed, soybean oil meal, hominy feed, oats, corn meal, grain screenings from wheat, corn, oats and barley, wheat bran, molasses, steamed bone meal, calcium carbonate, salt.
Bull Brand 20 Dairy Ration Sweetened Maritime Milling Co. Buffalo, N. Y.	G. F.	20.00 21.71	4.00 3.10	55.00 56.30	.... 8.41	.... 10.18	9.00 8.59	Brewers' dried grains, cottonseed meal, corn gluten feed, soybean oil meal, linseed meal, hominy feed, corn meal, wheat bran, wheat middlings, mill run screenings, molasses, steamed bone meal, calcium carbonate, salt, potassium iodide.

Bull Brand 24 Dairy Ration Sweetened .. Maritime Milling Co. ..... Buffalo, N Y.	G.	24.00	4.00	50.00	....	....	9.00	Brewers' dried grains, cottonseed meal, corn gluten feed, soybean oil meal, linseed meal, hominy feed, corn meal, wheat bran, wheat middlings, mill run screenings, molasses, steamed bone meal, calcium carbonate, potassium iodide, salt.
	F.	**23.33**	3.76	54.97	7.50	10.39	8.63	
Bull Brand Dry and Freshening Cow Feed Maritime Milling Co. ..... Buffalo, N. Y.	G.	13.00	4.00	65.00	....	....	9.00	Dried beet pulp, hominy feed, alfalfa meal, soybean oil meal, crushed oats, wheat bran, mill run screenings, linseed meal, corn gluten feed, molasses, steamed bone meal, calcium carbonate, potassium iodide, salt.
	F.	**11.71**	**2.87**	63.62	9.73	12.07	8.31	
Hi-Test Dairy Feed 24% Sweetened .... Maritime Milling Co. ..... Buffalo, N. Y.	G.	24.00	4.00	58.00	....	....	12.00	Brewers' dried grains, cottonseed meal, corn gluten feed, soybean oil meal, hominy feed, corn meal, oats, grain screenings from wheat, corn oats and barley, wheat bran, molasses, steamed bone meal, calcium carbonate, salt.
	F.	**23.38**	4.36	54.03	8.27	9.96	10.67	
Marmico 16% Dairy Feed ..... Maritime Milling Co. ..... Buffalo, N. Y.	G.	16.00	4.00	58.00	....	....	12.00	Brewers' dried grains, soybean oil meal, cottonseed meal, corn gluten feed, corn meal, grain screenings from wheat, corn, oats and barley, wheat bran, molasses, steamed bone meal, calcium carbonate, salt.
	F.	15.61	**3.38**	60.32	9.90	10.79	12.18	
Meadow Sweet Supplemental Dairy Feed . Maritime Milling Co. ..... Buffalo, N. Y.	G.	12.00	2.50	58.00	....	....	15.00	Brewers' dried grains, molasses, beet pulp, corn meal, wheat bran, alfalfa meal, grain screenings from wheat, corn, oats and barley, steamed bone meal, calcium carbonate, salt.
	F.	13.44	3.44	64.24	8.08	10.80	13.31	

Brand and Manufacturer		Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
		Protein	Fat	Carbo-hydrates	Ash	Mois-ture	Crude Fiber	
Merrimack Dairy Ration	G.	20.00	4.50	50.00	....	....	10.00	Brewers' dried grains, corn gluten feed, cottonseed meal, soybean oil meal, linseed meal, wheat bran, wheat middlings, oats, bone meal, salt, corn meal, calcium carbonate.
Merrimack Farmers' Exchange ..... Concord, N. H.	F.	20.62	4.34	57.29	8.69	9.06	7.72	
Merrimack Eureka Dairy Ration	G.	20.00	4.00	55.00	....	....	11.00	Corn gluten meal, corn meal, oat feed, cottonseed meal, wheat bran, corn gluten feed, soybean oil meal, molasses, salt, calcium carbonate.
Merrimack Farmers' Exchange ..... Concord, N. H.	F.	20.70	**3.52**	58.70	8.38	8.70	11.50	
Merrimack Fitting Ration	G.	14.00	4.50	60.00	....	....	8.00	Soybean oil meal, oats, corn meal, wheat bran, linseed meal, cane molasses, calcium carbonate, steamed bone meal, salt, cod liver oil.
Merrimack Farmers' Exchange ..... Concord, N. H.	F.	**13.47**	**3.97**	64.17	6.90	11.49	5.93	
Merrimack Sweetened Milk Ration	G.	20.00	4.00	53.00	....	....	8.50	Wheat bran, wheat standard middlings, corn gluten feed, corn gluten meal, linseed meal, soybean oil meal, cottonseed meal, oats, corn meal, brewers' dried grains, distillers' corn dried grains, cane molasses, steamed bone meal, calcium carbonate, salt.
Merrimack Farmers' Exchange ..... Concord, N. H.	F.	21.14	3.86	57.16	8.45	9.39	7.64	
New England Yankee 20 Dairy Ration ..	G.	20.00	4.00	50.00	....	....	12.00	Brewers' dried grains, cottonseed meal, corn gluten feed, soybean oil meal, hominy feed, oats, corn meal, grain screenings, wheat bran, molasses, steamed bone meal, calcium carbonate, salt.
New England Retail Grain Dealers' Cooperative Association ..... Springfield, Mass.	F.	23.25	4.43	55.07	7.37	9.88	10.47	
Bidwell 20% Dairy Ration	G.	20.00	3.50	58.00	....	....	12.00	Wheat bran, linseed meal, malt sprouts, corn gluten feed, oats, corn gluten meal, soybean oil meal, barley, cottonseed meal, grain screenings from wheat, oats, barley, buckwheat and milo, molasses, calcium carbonate, salt.
Park & Pollard Co. ..... Boston, Mass.	F.	20.53	3.54	56.11	9.60	10.22	10.39	

Doublex 16% Dairy Ration	G.	16.00	3.50	45.00	....	....	11.00	Corn distillers' grains, oats, barley, brewers' dried grains, malt sprouts, linseed meal, cottonseed meal, grain screenings from wheat, oats, barley, buckwheat and milo, soybean oil meal, corn gluten feed, molasses, calcium carbonate, salt.
Park & Pollard Co.	F.	19.26	3.74	59.71	8.26	9.03	10.26	
Boston, Mass.								
Doublex 20% Dairy Ration	G.	20.00	3.50	50.00	....	....	11.00	Linseed meal, corn gluten feed, oats, corn gluten meal, soybean oil meal, corn distillers' grains, barley, wheat bran, malt sprouts, cottonseed meal, grain screenings from wheat, oats, barley, buckwheat and milo, molasses, calcium carbonate, salt.
Park & Pollard Co.	F.	**19.38**	4.06	59.13	6.94	10.49	8.94	
Boston, Mass.								
Doublex 24% Dairy Ration	G.	24.00	3.50	55.00	....	....	11.00	Wheat bran, linseed meal, soybean oil meal, oats, malt sprouts, corn gluten meal, cottonseed meal, corn gluten feed, grain screenings from wheat, oats, barley, buckwheat and milo, molasses, calcium carbonate, salt.
Park & Pollard Co.	F.	**23.09**	3.67	54.21	9.53	9.50	8.83	
Boston, Mass.								
Milkmaid 20% Dairy Ration	G.	20.00	4.00	55.00	....	....	10.00	Corn gluten feed, linseed meal, cottonseed meal, barley, distillers' corn dried grains, soybean oil meal, oats, wheat bran, brewers' dried grains, malt sprouts, corn gluten meal, corn meal, cane molasses, calcium carbonate, salt.
Park & Pollard Co.	F.	21.32	**3.48**	57.60	7.69	9.91	7.61	
Buffalo, N. Y.								

Brand and Manufacturer		Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
		Protein	Fat	Carbo-hydrates	Ash	Mois-ture	Crude Fiber	
Milkmaid 24% Sweetened Dairy Ration .. Park & Pollard Co. ..... Boston, Mass.	G	24.00	4.00	50.00	....	....	10.00	Corn gluten feed, linseed meal, cottonseed meal, barley, distillers' corn dried grains, soybean oil meal, wheat bran, brewers' dried grains, malt sprouts, corn gluten meal, corn meal, molasses, calcium carbonate, salt.
	F.	26.79	3.80	52.00	7.53	9.88	7.11	
Park & Pollard 32% Mixing Ration .... Park & Pollard Co. ..... Boston, Mass.	G.	32.00	4.00	40.00	....	....	9.00	Linseed meal, cottonseed meal, wheat bran, corn gluten feed, soybean oil meal, corn gluten meal, malt sprouts, fish meal, molasses, calcium carbonate, salt.
	F.	**29.57**	3.94	49.16	8.83	8.50	9.80	
Park & Pollard Manamar Fitting Ration . Park & Pollard Co. ..... Boston, Mass.	G.	12.00	3.50	55.00	....	....	7.00	Kelp, fish meal, sea shells, linseed meal, oats, corn meal, wheat bran, molasses, calcium carbonate, cracked corn, crushed oats, salt.
	F.	12.52	**2.84**	64.58	8.26	11.80	6.46	
Protena 20% Dairy Feed ..... Purina Mills ..... St. Louis, Mo.	G	20.00	3.50	50.00	....	....	12.00	Linseed meal, soybean oil meal, cottonseed meal, corn gluten feed, wheat middlings, alfalfa meal, wheat bran, grain screenings from wheat, corn, oats, barley and kafir, molasses, calcium carbonate, iodized salt.
	F.	23.07	4.20	53.99	9.53	9.21	9.54	
Purina Dry and Freshening Cow Chow .. Purina Mills ..... St. Louis, Mo.	G.	12.50	2.50	59.00	....	....	14.00	Carotene, soybean oil meal, corn gluten meal, oats, dried beet pulp, corn meal, alfalfa meal, wheat middlings, wheat bran, molasses, calcium carbonate, iodized salt.
	F	14.71	2.72	62.22	9.70	10.65	11.46	

Purina Milking Cow Chow 20%	G.	20.00	4.00	57.00	....	....	12.00	Dried beet pulp, linseed meal, soybean oil meal, corn gluten feed, cottonseed meal, distillers' corn dried grains, brewers' dried grains, wheat middlings, wheat bran, corn meal, alfalfa meal, molasses, calcium carbonate, iodized salt.
Purina Mills	F.	21.45	4.76	57.56	7.57	8.66	9.45	
St. Louis, Mo.								
Purina Milking Cow Chow 24%	G.	24.00	4.00	49.00	....	....	12.00	Linseed meal, soybean oil meal, corn gluten feed, cottonseed meal, distillers' corn dried grains, brewers' dried grains, wheat middlings, wheat bran, alfalfa meal, molasses, calcium carbonate, iodized salt.
Purina Mills	F.	26.70	4.83	51.10	8.15	9.22	8.78	
St. Louis, Mo.								
Quaker 20% Dairy Ration	G.	20.00	4.00	57.00	....	....	12.00	Hominy feed, yellow hominy feed, barley feed, corn distillers' grains, cottonseed meal, corn gluten feed, soybean oil meal, wheat bran, wheat standard middlings, oat mill feed, salt, iodized limestone, bone meal, molasses.
Quaker Oats Co.	F.	22.59	4.18	57.43	7.51	8.29	12.09	
Chicago, Ill.								
Rollins' Special Dairy Feed	G.	20.00	4.00	45.00	....	....	9.00	Corn gluten feed, wheat bran, cottonseed meal, wheat middlings, hominy, brewers' grains, linseed meal, molasses, limestone, bone meal, salt.
H. E. Rollins	F.	21.01	**3.36**	58.83	5.98	10.82	6.94	
Farmington, N. H.								
Champlain Valley 20 Dairy Ration	G.	20.00	3.50	56.00	....	....	8.50	Linseed meal, soybean oil meal, cottonseed meal, brewers' dried grains, corn gluten meal, corn gluten feed, corn meal, hominy feed, oats, barley, wheat bran, wheat middlings, cane molasses, calcium carbonate, salt.
St. Albans Grain Co.	F.	21.45	3.50	56.44	8.22	10.39	6.88	
St. Albans, Vt.								

Brand and Manufacturer		Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
		Protein	Fat	Carbo-hydrates	Ash	Moisture	Crude Fiber	
Hygrade 16 Milk Ration Sweetened ..... St. Albans Grain Co. ..... St. Albans, Vt.	G.	16.00	3.50	60.00	....	....	8.50	Linseed meal, soybean oil meal, brewers' dried grains, corn gluten feed, corn meal, hominy feed, oats, barley, wheat bran, wheat middlings, cane molasses, calcium carbonate, salt.
	F.	17.56	4.09	60.93	7.88	9.24	6.87	
Hygrade 20 Milk Ration Sweetened .... St. Albans Grain Co. ..... St. Albans, Vt.	G.	20.00	3.50	54.00	....	....	8.50	Linseed meal, soybean oil meal, cottonseed meal, brewers' dried grains, corn gluten meal, corn gluten feed, corn meal, hominy feed, oats, barley, wheat bran, wheat middlings, cane molasses, calcium carbonate, salt.
	F.	22.02	3.54	56.84	8.48	9.17	6.97	
Hygrade 24 Milk Ration Sweetened .... St. Albans Grain Co. ..... St. Albans, Vt.	G.	24.00	3.50	50.00	....	....	9.00	Corn gluten meal, corn gluten feed, linseed meal, soybean oil meal, cottonseed meal, brewers' dried grains, corn meal, hominy feed, oats, barley, wheat bran, wheat middlings, calcium carbonate, salt, cane molasses.
	F.	24.91	3.73	53.90	8.34	9.12	7.98	
Utility 20 Dairy Ration ..... St. Albans Grain Co. ..... St. Albans, Vt.	G.	20.00	3.50	56.00	....	....	12.00	Linseed meal, soybean oil meal, corn gluten feed, cottonseed meal, corn meal, hominy feed, oats, barley, brewers' dried grains, oat meal mill by-products, wheat bran, wheat middlings, calcium carbonate, cane molasses, salt.
	F.	20.44	3.33	54.30	12.57	9.40	9.97	
Worthmore 14 Fitting Ration ..... St. Albans Grain Co. ..... St. Albans, Vt.	G.	14.00	4.00	65.00	....	....	7.00	Cod liver oil, linseed meal, oats, barley, yellow corn meal, hominy feed, wheat bran, wheat middlings, cane molasses, fish meal, bone meal, salt.
	F.	15.41	4.35	62.70	6.77	10.77	6.14	

Wirthmore 20 Dairy Ration Sweetened ..	G.	20.00	4.50	59.00	....	....	8.00	Corn gluten meal, distillers' corn dried grains, linseed meal, soybean oil meal, cottonseed meal, corn gluten feed, yellow corn meal, oats, barley, wheat middlings, wheat bran, bone meal, cane molasses, salt.
St. Albans Grain Co.	F.	22.94	5.01	56.67	5.64	9.74	7.27	
St. Albans, Vt.								
Wirthmore 25 Balanced Ration Sweetened	G.	25.00	4.50	55.00	....	....	8.50	Corn gluten meal, distillers' corn dried grains, linseed meal, soybean oil meal, barley, oats, cottonseed meal, corn gluten feed, yellow corn meal, wheat middlings, wheat bran, bone meal, cane molasses, salt.
St. Albans Grain Co.	F.	26.05	4.71	52.84	6.56	9.84	7.47	
St. Albans, Vt.								
Wirthmore 32% Ration	G.	32.00	4.00	45.00	....	....	8.00	Corn gluten meal, corn gluten feed, distillers' dried grains, soybean oil meal, linseed meal, cottonseed meal, wheat bran, cane molasses, calcium carbonate, bone meal, salt.
St. Albans Grain Co.	F.	33.27	4.86	44.35	9.58	7.94	7.61	
St. Albans, Vt.								
Wirthmore Record Ration	G.	20.00	4.50	55.00	....	....	8.50	Linseed meal, soybean oil meal, corn gluten meal, distillers' corn dried grains, yellow corn meal, hominy feed, oats, dried beet pulp, wheat bran, wheat middlings, cane molasses, fish meal, bone meal, salt.
St. Albans Grain Co.	F.	21.40	4.37	58.39	6.11	9.73	7.57	
St. Albans, Vt.								
Spaulding's Dairy Feed	G.	20.00	4.00	55.00	....	....	9.50	Linseed meal, soybean oil meal, cottonseed meal, corn gluten feed, corn meal, hominy feed, wheat bran, mill run wheat screenings, distillers' rye dried grains, rye feed, salt, calcium carbonate, molasses.
F. B. Spaulding Co.	F.	21.84	**3.65**	58.42	6.58	9.51	7.74	
Lancaster, N. H.								

Brand and Manufacturer		Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
		Protein	Fat	Carbo-hydrates	Ash	Moisture	Crude Fiber	
Stratton's White Clover 20% Dairy Feed . Stratton & Co. ..... Concord, N. H.	G.	20.00	4.00	50.00	....	....	11.00	Wheat bran, linseed meal, oat hulls, oat shorts, oat middlings, corn gluten feed, barley, cottonseed meal, grain screenings, molasses, calcium carbonate, salt.
	F.	21.01	**3.49**	56.55	8.65	10.30	8.05	
Beet 20% Dairy Feed ..... Jacob Trinley & Sons ..... Linfield, Pa.	G.	20.00	4.00	55.00	....	....	10.50	Beet pulp, soybean oil meal, linseed meal, cottonseed meal, corn gluten feed, oats, corn meal, wheat bran, bone meal, molasses, salt.
	F.	20.00	3.92	58.51	7.08	10.49	9.49	
Trinley 16 Dairy Feed ..... Jacob Trinley & Sons ..... Linfield, Pa.	G.	16.00	3.50	55.00	....	....	11.50	Linseed meal, corn gluten feed, cottonseed meal, wheat bran, malt sprouts, soybean oil meal, grain screenings, cane molasses, distillers' grains, bone meal, oats, salt, calcium carbonate.
	F.	16.11	**3.12**	62.70	7.49	10.58	8.89	
Blue Seal Hen Mix 24% Dairy Ration .. H. K. Webster Co. ..... Lawrence, Mass.	G.	24.00	4.50	53.00	....	....	9.00	Cottonseed meal, soybean oil meal, corn oil meal, malt sprouts, corn gluten meal, oat feed, wheat bran, hominy feed, peanut skins, germs and meal, linseed meal, brewers' dried grains, cane molasses.
	F.	24.12	4.69	56.21	6.32	8.66	9.56	
Blue Seal Special 20% Dairy Ration .... H. K. Webster Co. ..... Lawrence, Mass.	G.	20.00	4.50	55.00	....	....	10.00	Cottonseed meal, soybean oil meal, corn oil meal, malt sprouts, corn gluten feed, oat feed, wheat bran, hominy feed, peanut skins, germs and meal, linseed meal, brewers' dried grains, distillers' corn dried grains, cane molasses.
	F.	20.58	4.81	58.15	7.20	9.26	11.35	

DISTILLERS' CORN DRIED GRAINS								
Corn Distillers' Dried Grains	G.	25.00	7.00	45.00	....	....	15.00	
Continental Distilling Corp. ..... Philadelphia, Pa.	F.	26.71	10.50	56.50	1.55	4.74	....	
Neumond 28% Corn Distillers' Grain ..	G.	28.00	7.00	45.00	....	....	15.00	
Neumond Co. ..... St. Louis, Mo.	F.	29.81	8.61	50.35	2.86	8.37	....	
Corn Distillers' Dried Grains	G.	28.00	6.00	48.00	....	....	13.00	
Hiram Walker & Sons ..... Peoria, Ill.	F.	29.33	7.17	51.47	3.80	8.23	....	
FISH MEAL								
Maine Vitamin D Fish Meal	G.	55.00	12.00	....	....	....	1.00	
Maine Fish Meal Co. ..... Portland, Me.	F.	58.14	12.00	....	19.67	8.53	0.28	
Register Brand Cod and Haddock Fish Meal	G.	62.00	3.00	....	....	....	1.00	
John Reardon & Sons ..... Cambridge, Mass.	F.	63.13	5.63	....	22.91	7.48	....	
FLAYDRY, LACTOFLAVIN CONCENTRATE								
Flaydry, Lactoflavin Concentrate	G.	18.00	0.50	52.75	....	....	2.75	Whey, soybean meal, lactoflavin concentrate.
Borden Co. ..... New York, N. Y.	F.	24.30	**0.11**	58.56	12.21	4.82	1.89	
GLUTEN FEED, CORN								
Cream of Corn Gluten Feed	G.	25.00	2.00	58.50	....	....	8.50	
American Maize Products Co. ..... Roby, Ind.	F.	29.11	2.34	53.41	6.27	8.87	....	

Brand and Manufacturer		Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
		Protein	Fat	Carbo-hydrates	Ash	Mois-ture	Crude Fiber	
Clinton Corn Gluten Feed	G.	25.00	2.00	57.00	....	....	8.50	
Clinton Co.	F.	27.71	3.30	53.76	6.81	8.72	....	
Clinton, Iowa.								
Buffalo Corn Gluten Feed	G.	25.00	1.00	50.00	....	....	8.50	
Corn Products Refining Co.	F.	28.75	2.39	54.99	6.79	9.08	....	
New York, N. Y.								
Staley's Corn Gluten Feed	G.	25.00	1.00	53.00	....	....	8.00	
A. E. Staley Mfg. Co.	F.	30.33	1.62	55.26	6.24	8.55	....	
Decatur, Ill.								
Staley's Corn Gluten Feed Sweetened	G.	20.00	1.00	50.00	....	....	7.00	Corn gluten feed, cane molasses.
A. E. Staley Mfg. Co.	F.	28.92	1.67	57.00	6.95	8.46	....	
Decatur, Ill.								
GLUTEN MEAL, CORN								
Amaizo Gluten Meal	G.	40.00	1.00	49.00	....	....	4.00	
American Maize Products Co.	F.	42.03	3.55	42.86	3.50	7.49	....	
Chicago, Ill.								
Diamond Corn Gluten Meal	G.	43.00	1.00	42.00	....	....	4.00	
Corn Products Refining Co.	F.	44.29	3.87	43.18	1.46	7.29	....	
New York, N. Y.								
HOMINY FEED								
White Hominy Feed	G.	10.00	6.00	65.00	....	....	5.00	
Kellogg Co.	F.	10.11	5.78	73.39	2.37	8.35	3.50	
Battle Creek, Mich.								
Moon's Hominy Feed	G.	10.00	5.00	65.00	....	....	6.00	
George Q. Moon & Co.	F.	9.91	7.85	71.02	2.40	8.82	5.67	
Binghamton, N. Y.								

HORSE FEED								
Wayne Horse Feed Allied Mills Chicago, Ill.	G. F.	9.50 10.25	3.00 3.18	58.00 74.35	.... 1.94	.... 10.28	8.00 5.70	Cracked corn, crimped oats, wheat bran, cane molasses.
Barco Horse Feed G. N. Bartemus Co. Concord, N. H.	G. F.	10.00 10.85	3.50 3.60	60.00 69.44	.... 3.85	.... 12.26	5.00 5.54	Crimped oats, cracked corn, wheat bran, linseed meal, salt, molasses.
Eastern States Horse Feed Eastern States Farmers' Exchange Springfield, Mass.	G. F.	10.50 10.55	3.00 3.37	63.00 67.90	.... 5.34	.... 12.84	7.00 5.59	Crimped oats, yellow cracked corn, wheat bran, cane molasses, linseed meal, dicalcium phosphate, salt.
E-M-C-O Horse Feed Elmore Milling Co. Oneonta, N. Y.	G. F.	9.00 10.33	2.50 3.44	55.00 69.97	.... 4.27	.... 11.99	11.00 7.62	Alfalfa meal, cracked corn, crimped oats, wheat bran, cane molasses, salt.
Garland Horse Feed J. B. Garland & Son Worcester, Mass.	G. F.	10.00 11.38	3.00 3.74	60.00 69.69	.... 3.56	.... 11.63	9.00 5.97	Cracked corn, crimped oats, linseed meal, wheat bran, molasses, salt.
Granite State Horse Feed E. C. & W. L. Hopkins Greenfield, N. H.	G. F.	10.00 12.78	4.00 4.01	65.00 63.19	.... 8.96	.... 11.06	8.00 6.24	Crimped oats, wheat bran, cracked corn, linseed meal, cane molasses, salt.
Purina Omolene Purina Mills St. Louis, Mo.	G. F.	10.00 11.82	3.20 3.84	67.00 69.59	.... 4.58	.... 10.17	11.00 6.37	Crushed oats, cracked corn, alfalfa leaf meal, linseed meal, soybean oil meal, molasses, wheat bran, calcium carbonate, iodized salt.
Hygrade Horse Feed St. Albans Grain Co. St. Albans, Vt.	G. F.	9.50 10.77	3.25 3.70	65.00 68.38	.... 5.89	.... 11.26	9.00 6.16	Crushed oats, cracked yellow corn, linseed meal, wheat bran, alfalfa meal, cane molasses, salt.
Wirthmore Horse Feed St. Albans Grain Co. St. Albans, Vt.	G. F.	9.80 10.94	3.25 3.70	65.00 71.37	.... 2.94	.... 11.05	9.00 6.81	Oats, cracked yellow corn, linseed meal, alfalfa meal, cane molasses, salt.

Brand and Manufacturer		Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
		Protein	Fat	Carbo-hydrates	Ash	Mois-ture	Crude Fiber	
Linfield Horse Feed	G.	[illegible]	1.50	65.00	....	....	12.10	Cracked corn, oats, oat hulls, oat clips, molasses, salt.
Jacob Trinley & Sons Linfield, Pa.	F.	8.01	1.79	75.10	6.63	8.47	10.39	
KELP								
Kelco Meal	G.	3.00	0.10	40.00	....	....	10.00	
Kelco Co. New York, N. Y.	F.	5.17	0.31	47.91	38.08	8.53	7.00	
LINSEED MEAL								
Triple Value Old Process Linseed Meal	G.	32.00	4.50	35.00	....	....	9.00	
Archer-Daniels Midland Co. Minneapolis, Minn.	F.	33.36	4.77	46.65	6.30	8.92	....	
K & M Brand 32% Old Process Linseed Meal	G.	32.00	5.00	40.00	....	....	10.00	
Bisbee Linseed Co. Amsterdam, N. Y.	F.	34.02	5.91	45.34	5.97	8.76	....	
Kellogg's Old Process Linseed Meal	G.	32.00	4.50	43.00	....	....	9.00	
Spencer Kellogg & Sons Buffalo, N. Y.	F.	32.84	5.40	46.34	5.97	9.45	...	
Sherwin-Williams Pure Old Process 32% Linseed Meal	G.	32.00	4.50	45.00	....	....	9.00	
Sherwin-Williams Co. Cleveland, O.	F.	36.12	5.26	45.21	5.31	8.10	..	
MEAT SCRAPS								
Corenco 50% Meat and Bone Scrap	G.	50.00	6.00	....	....	....	....	
Consolidated Rendering Co. Boston, Mass.	F.	50.70	8.42	....	31.37	6.75	....	
Eggaday Brand Meat and Bone Scrap	G	50.00	6.00	....	....	....	....	
Independent Tallow Co. Woburn, Mass.	F	50.79	10.85	....	28.21	5.31	....	

Cumberland Brand Meat Scrap	G.	40.00	8.00	....	....	....	....
John Kern & Son Portland, Me.	F.	40.10	8.46	....	46.33	5.11	....
Morse's 45% Meat Scraps	G.	45.00	8.00	....	....	....	....
James F. Morse & Co. Somerville, Mass.	F.	45.09	8.48	....	36.01	6.05	....
Meat and Bone Scrap. Register Brand 50% Protein	G.	50.00	6.00	...	....	....	....
John Reardon & Sons Cambridge, Mass.	F.	**48.13**	12.57	....	32.10	4.76	....
Meat Scrap Register Brand	G.	55.00	6.00	....	....	....	....
John Reardon & Sons Cambridge, Mass.	F.	55.21	11.49	....	26.79	5.16	....
MILK, DRIED SKIMMED							
Buell-Boston Dried Skim Milk	G.	33.00	0.20	....	....	....	....
B & B Dairy Co. Margaretville, N. Y.	F.	34.15	0.71	52.35	8.01	4.78	....
Supreme Brand Dried Skim Milk	G.	32.00	0.25	....	....	....	....
Herbert K. Clofine Philadelphia, Pa.	F.	33.10	0.69	53.32	8.09	4.80	....
Dairylea Dried Skim Milk	G.	33.00	0.50	....	....	....	....
Dairymen's League Cooperative Association Utica, N. Y.	F.	33.58	0.78	52.31	8.40	4.93	....
Dried Skim Milk	G.	32.00	0.50	....	....	....	....
United Farmers' Cooperative Creamery Association Morrisville, Vt.	F.	36.25	0.76	49.71	8.49	4.79	...
Ward's Pure Dried Skim Milk	G.	32.00	1.00	40.00	....	....	....
Ward Dry Milk Co. St. Paul, Minn.	F.	**30.69**	4.46	50.57	9.31	4.97	....

Brand and Manufacturer		Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
		Protein	Fat	Carbo-hydrates	Ash	Moisture	Crude Fiber	
OAT MEAL								
Feeding Oat Meal	G.	14.00	5.00	71.00	....	....	4.00	Oat groats, oat flour, oat middlings.
Farmers' Service Bureau, Baltimore, Md.	F.	15.15	6.67	63.24	4.74	10.20	....	
Pulverized Oats	G.	12.00	3.00	....	....	....	12.00	
Farmers' Service Bureau, Baltimore, Md.	F.	**10.99**	3.50	73.92	4.31	7.28	14.31	
Red 3 Feeding Oat Meal	G.	14.50	5.00	60.00	....	....	3.70	
National Oats Co., East St. Louis, Ill.	F.	16.22	6.03	66.90	2.16	8.69	2.68	
Chief Feeding Oat Meal	G.	14.00	5.30	60.00	....	....	3.75	Oat middlings, oat groats.
Purity Oats Co., Keokuk, Iowa	F.	15.28	7.17	67.37	2.23	7.95	3.87	
Pulverized Oats	G.	12.00	4.50	69.00	....	....	12.00	
Purity Oats Co., Keokuk, Iowa	F.	13.04	4.60	70.36	4.06	7.94	11.07	
OAT MILL FEED								
Fruen's Oat Mill Feed	G.	6.00	2.00	....	....	....	26.00	Oat hulls, oat shorts, oat middlings.
Fruen Milling Co., Minneapolis, Minn.	F.	**4.99**	**1.38**	79.74	6.57	7.32	28.39	
Oat Mill Feed	G.	6.00	1.50	74.00	....	....	28.00	Oat meal by-product, oat middlings, oat shorts, oat hulls.
Hecker Products Corp., Buffalo, N. Y.	F.	6.08	1.97	76.82	6.85	8.28	26.51	
Reground Oat Feed	G.	3.50	1.25	....	....	....	35.00	Oat meal mill by-product, oat middlings, oat shorts, oat hulls.
Northern Illinois Cereal Co., Lockport, Ill.	F.	3.63	**0.99**	82.81	7.84	4.73	....	
Peterborough Oat Feed	G.	4.00	1.50	79.00	....	....	32.00	Oat mill feed.
Quaker Oats Co., Peterborough, Ont.	F.	6.04	1.69	80.22	6.97	5.08	....	

Sugared Vim Oat Mill Feed	G.	5.00	1.25	80.00	....	....	27.50	Oat mill feed, molasses.
Quaker Oats Co. ..... Peterborough, Ont.	F.	5.56	1.31	79.40	6.56	7.17	26.07	
Mixing Special	G.	3.00	1.00	65.00	....	....	15.00	Oat meal mill by-products, clipped oat by-product, molasses.
Jacob Trinley & Sons ..... Linfield, Pa.	F.	4.90	**0.31**	79.56	9.44	5.79	16.06	
Pulverized Oat Hulls	G.	4.00	1.00	....	....	....	30.00	Oat middlings, oat hulls.
James Wilson & Sons ..... Fergus, Ont.	F.	4.38	1.40	80.36	5.86	8.00	29.28	
PIG AND HOG FEED								
Wayne Hog Supplement	G.	40.00	4.50	29.00	....	....	7.00	Digester tankage, fish meal, soybean oil meal, linseed meal, peanut oil meal, cottonseed meal, wheat standard middlings, alfalfa meal, cane molasses, limestone, steamed bone meal, iron oxide, potassium iodide, copper sulphate, salt.
Allied Mills ..... Chicago, Ill.	F.	43.43	**4.18**	27.44	16.50	8.45	5.48	
Gambrill's Hog Meal	G.	18.00	4.00	55.00	....	....	8.00	Wheat middlings, corn feed meal, tankage, fish meal, linseed meal, peanut oil meal, alfalfa meal, soybean oil meal, barley, molasses, bone meal, calcium carbonate, salt, potassium iodide, rye middlings.
Dietrich & Gambrill ..... Frederick, Md.	F.	19.31	**3.71**	57.73	8.01	11.24	5.73	
Eastern States Hog Meal	G.	14.50	4.00	57.00	....	....	5.00	Yellow corn meal, barley, meat scraps, wheat flour middlings, wheat bran, alfalfa leaf meal, linseed meal, soybean oil meal, calcium carbonate, dicalcium phosphate, salt, sardine oil.
Eastern States Farmers' Exchange ..... Springfield, Mass.	F.	15.59	4.01	61.80	7.97	10.63	4.67	

Brand and Manufacturer		Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
		Protein	Fat	Carbo-hydrates	Ash	Moisture	Crude Fiber	
Eshelman Red Rose Pig and Hog Meal .. John W. Eshelman & Sons ..... Lancaster, Pa.	G.	16.00	5.00	55.00	....	....	10.00	Wheat middlings, corn feed meal, digester tankage, soybean oil meal, wheat bran, bone meal, fish meal, linseed meal, charcoal, wheat screenings, calcium carbonate, salt.
	F.	19.79	5.00	56.85	8.44	9.92	7.88	
Quaker State Hog Ration ..... E. C. & W. L. Hopkins ..... Greenfield, N. H.	G.	18.00	5.00	50.00	....	....	7.00	Corn meal, meat scraps, wheat red dog, standard wheat middlings, fish meal, soybean oil meal, alfalfa meal, kelp, calcium carbonate, charcoal.
	F.	19.17	4.84	58.94	6.00	11.05	8.04	
Larrowe Pig Builder ..... Larrowe Milling Co. ..... Detroit, Mich.	G.	17.50	4.00	56.50	....	....	7.50	Wheat bran, yellow corn meal, wheat standard middlings, fish meal, meat and bone scraps, soybean oil meal, alfalfa meal, dried beet pulp, limestone, salt, linseed meal.
	F.	18.56	4.09	59.18	7.86	10.31	6.35	
B-B Pig and Hog Feed ..... Maritime Milling Co ..... Buffalo, N. Y.	G.	14.00	3.50	55.00	....	....	9.00	Digester tankage, alfalfa meal, wheat middlings, mill run screenings, linseed meal, soybean oil meal, corn meal, barley, oats, wheat red dog flour, molasses, steamed bone meal, charcoal, calcium carbonate, salt, potassium iodide.
	F.	14.23	3.32	63.18	8.26	11.01	8.51	
Merrimack Pig Ration ..... Merrimack Farmers Exchange ..... Concord, N. H.	G.	17.00	5.00	55.00	....	....	7.00	Wheat middlings, wheat bran, wheat red dog, hominy feed, corn meal, meat scraps, fish meal, salt, calcium carbonate, charcoal, cod liver oil.
	F.	18.60	5.71	55.27	10.28	10.14	5.48	

Purina Pig Growena Purina Mills St. Louis, Mo.	G. F	14.00 16.29	2.00 3.68	60.00 63.76	.... 5.69	.... 10.58	8.00 7.01	Tankage, linseed meal, alfalfa meal, barley, wheat middlings, corn meal, molasses, iodized salt.
Real Hog Feed Jacob Trinley & Sons Linfield, Pa.	G. F	18.00 22.59	4.00 5.23	55.00 51.56	.... 11.75	.... 8.87	10.00 9.42	Corn meal, oats, wheat middlings, corn gluten feed, linseed meal, alfalfa meal, bone meal, soybean oil meal, tankage, molasses, charcoal, salt.
Whiting Hog Ration D. Whiting & Sons Wilton, N. H.	G. F	14.00 16.77	4.50 4.97	58.00 60.61	.... 7.49	.... 10.16	7.00 9.00	Wheat bran, wheat middlings, hominy, alfalfa leaf meal, calcium carbonate, fish meal, charcoal.
POULTRY FEED								
Wayne 26% Mash Supplement Allied Mills Chicago, Ill.	G. F.	26.00 28.63	4.00 5.12	43.00 41.80	.... 15.04	.... 9.41	10.00 8.09	Dried buttermilk, dried skimmed milk, liver meal, meat scraps, fish meal, wheat standard middlings, peanut oil meal, wheat bran, corn gluten meal, corn gluten feed, alfalfa meal, soybean oil meal, limestone, iron oxide, potassium iodide, salt, sardine oil.
Wayne All Mash Laying Ration Allied Mills Chicago, Ill.	G. F.	15.00 16.55	4.00 4.28	58.00 61.04	.... 7.53	.... 10.60	8.00 6.72	Fish meal, meat scraps, animal liver meal, soybean oil meal, corn meal, corn gluten meal, oats, wheat standard middlings, wheat bran, alfalfa meal, corn gluten feed, dried skimmed milk, dried buttermilk, sardine oil, limestone, iron oxide, potassium iodide, manganese sulphate, salt.

Brand and Manufacturer		Pounds in 100 lbs of Feeding Stuffs						Certified by manufacturer to contain
		Protein	Fat	Carbo-hydrates	Ash	Moisture	Crude Fiber	
Wayne Chick Starter ..... Allied Mills ..... Chicago, Ill.	G.	17.00	4.00	55.00	....	....	7.00	Dried buttermilk, dried skimmed milk, animal liver meal, meat scraps, fish meal, wheat standard middlings, corn meal, corn gluten meal, oats, alfalfa meal, soybean oil meal, wheat bran, limestone, iron oxide, potassium iodide, manganese sulphate, salt, sardine oil.
	F.	17.[illegible]	[illegible]	58.79	8.06	11.00	5.8[illegible]	
Wayne Egg and Breeder Mash with Sardine Oil ..... Allied Mills ..... Chicago, Ill.	G.	18.00	4.50	52.00	....	....	7.00	Dried buttermilk, dried skimmed milk, liver meal, meat scraps, fish meal, wheat standard middlings, wheat bran, corn meal, oat meal, corn gluten feed, alfalfa meal, soybean oil meal, limestone, iron oxide, potassium iodide, salt, sardine oil.
	F.	19.00	4.90	56.38	9.62	10.10	6.72	
Wayne Growing Mash with Sardine Oil .. Allied Mills ..... Chicago, Ill.	G.	16.00	4.00	56.00	....	....	6.00	Dried buttermilk, dried skimmed milk, liver meal, meat scraps, fish meal, wheat standard middlings, corn meal, oat meal, alfalfa meal, soybean oil meal, wheat bran, limestone, iron oxide, potassium iodide, salt, sardine oil.
	F.	18.[illegible]	5.11	58.14	8.23	10.13	6.4[illegible]	
Wayne Mash Concentrate with Sardine Oil ..... Allied Mills ..... Chicago, Ill.	G.	32.00	4.00	33.00	....	....	8.00	Dried buttermilk, dried skimmed milk, liver meal, fish meal, peanut oil meal, meat scraps, soybean oil meal, corn gluten meal, corn gluten feed, alfalfa meal, limestone, iron oxide, potassium iodide, salt, sardine oil.
	F.	38.70	5.80	30.97	17.69	6.84	6.73	

Pennant Brand Growing Feed	G.	15.00	5.00	50.00	....	....	5.00	Wheat bran, yellow corn meal, wheat red dog flour, oat groats, dried skimmed milk, meat scraps, charcoal, bone meal, alfalfa leaf meal, salt, calcium carbonate, locust bean meal, anise, crushed flaxseed, dried milk albumen, codfish meal, blood flour, cocoa, fenugreek, potassium iodide, rice polish, soybean oil cake meal, linseed meal, cocoanut oil cake meal, cod liver meal, cod liver oil.
E. W. Bailey & Co. ..... Montpelier, Vt.	F.	15.11	**4.21**	60.87	9.00	10.78	6.45	
Pennant Brand Laying Mash	G.	20.00	5.00	50.00	....	....	6.00	Wheat red dog flour, yellow corn meal, oats, oat groats, meat scraps, wheat bran, wheat standard middlings, corn gluten feed, alfalfa leaf meal, dried skimmed milk, salt, calcium carbonate, locust bean meal, bran meal, anise seed, crushed flaxseed, dried milk albumen, codfish meal, blood flour, cocoa, fenugreek seed, potassium iodide, rice polish, soybean oil meal, cod liver oil, cod liver meal.
E. W. Bailey & Co. ..... Montpelier, Vt.	F.	21.76	**4.66**	52.98	10.37	10.23	5.03	
Barco All Purpose Mash	G.	18.00	4.00	51.00	....	....	6.80	Oats, wheat, corn meal, wheat bran, soybean oil meal, oat groats, alfalfa leaf meal, meat scraps, fish meal, dried skimmed milk, calcium carbonate, bone meal, salt, cod liver oil.
G. N. Bartemus Co. ..... Concord, N. H.	F.	18.00	**3.71**	55.26	12.36	10.64	4.57	
Barco Laying Mash	G.	20.00	5.00	50.00	....	....	6.00	Oats, hominy, meat scraps, wheat red dog, wheat bran, corn gluten feed, alfalfa leaf meal, dried skimmed milk, salt, feeding oat meal, cod liver oil, bone meal.
G. N. Bartemus Co. ..... Concord, N. H.	F.	22.42	4.80	51.79	10.61	10.38	5.62	

Brand and Manufacturer		Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
		Protein	Fat	Carbo-hydrates	Ash	Moisture	Crude Fiber	
Barco Special Broiler Mash	G.	17.00	4.00	47.00	....	....	5.00	Corn meal, wheat flour middlings, wheat bran, oat meal, dried skimmed milk, meat scraps, fish meal, alfalfa leaf meal, bone meal, lime flour, salt, cod liver oil.
G. N. Bartemus Co.	F.	19.09	4.55	56.51	8.95	10.90	4.14	
Concord, N. H.								
Special Growing Mash	G.	14.00	4.50	40.00	....	....	5.00	Wheat bran, corn meal, wheat red dog, oats, dried skimmed milk, meat scraps, charcoal, bone meal, alfalfa leaf meal, salt, cod liver oil.
G. N. Bartemus Co.	F.	17.49	5.52	56.02	11.02	9.95	6.20	
Concord, N. H.								
Special Laying Mash	G.	20.00	4.00	47.00	....	....	3.00	Oats, meat scraps, wheat red dog, wheat bran, corn gluten feed, alfalfa leaf meal, dried skimmed milk, salt, corn meal.
G. N. Bartemus Co.	F.	21.36	4.23	54.07	9.93	10.41	6.12	
Concord, N. H.								
Beacon Breeders' Mash	G.	20.00	4.00	50.00	....	....	7.00	Dried buttermilk, dried skimmed milk, meat scraps, fish meal, alfalfa leaf meal, corn meal, oats, barley, wheat bran, wheat flour middlings, cod liver oil, salt, calcium carbonate.
Beacon Milling Co.	F.	21.76	4.80	53.47	10.38	9.59	6.97	
Cayuga, N. Y.								
Beacon Egg Mash with Buttermilk ...	G.	22.00	4.50	48.00	....	....	7.00	Dried buttermilk, dried skimmed milk, meat scraps, fish meal, barley, oats, alfalfa leaf meal, wheat bran, wheat flour middlings, corn meal, cod liver oil, calcium carbonate, salt.
Beacon Milling Co.	F.	21.31	6.06	52.25	11.12	9.26	6.85	
Cayuga, N. Y.								
Beacon Fleshing Pellets	G.	15.00	3.50	55.00	....	....	6.50	Dried skimmed milk, oats, wheat germ meal, barley, wheat low grade flour, corn meal, corn oil meal, cod liver oil, calcium carbonate, salt.
Beacon Milling Co.	F.	15.81	3.50	64.61	5.97	10.11	6.82	
Cayuga, N. Y.								

Beacon Growing Mash	G.	18.00	4.00	50.00	....	....	7.00	Dried skimmed milk, meat scraps, fish meal, oats, barley, corn meal, wheat red dog flour, alfalfa meal, wheat bran, wheat flour middlings, cod liver oil, calcium carbonate, salt.
Beacon Milling Co.	F.	17.78	4.97	56.83	11.31	9.11	7.14	
Cayuga, N. Y.								
Chase Growing Mash	G.	14.00	4.50	45.00	....	....	10.00	Corn meal, oat meal, wheat bran, wheat middlings, meat scraps, bone meal, charcoal, salt, dried milk, fish oil.
David C. Chase	F.	16.24	6.19	56.92	11.82	8.83	6.68	
Smithtown, N. H.								
Chase Laying Mash	G.	18.00	4.50	45.00	....	....	10.00	Corn meal, oat meal, wheat bran, wheat middlings, meat scraps, corn gluten feed, dried milk, salt, charcoal, fish oil.
David C. Chase	F.	21.36	6.22	52.55	11.15	8.72	6.76	
Smithtown, N. H.								
D & F Laying Mash	G.	18.00	4.00	53.00	....	....	9.00	Corn meal, wheat bran, red dog middlings, oats, fish meal, alfalfa leaf meal, calcite flour.
D & F Grain Co.	F.	18.56	4.74	58.77	7.68	10.25	5.69	
Pittsfield, N. H.								
Delaware All Mash Chick Starter	G.	17.00	5.00	60.00	....	....	6.00	Cod liver oil, dried skimmed milk, meat scraps, fish meal, wheat red dog flour, alfalfa leaf meal, corn meal, wheat bran, wheat middlings, oat meal, bone meal, phosphatic calcium carbonate, charcoal, salt.
Delaware Mills	F.	**16.23**	**4.62**	61.61	5.98	11.56	5.48	
Deposit, N. Y.								
Delaware Growing Mash	G.	17.00	5.00	55.00	....	....	6.50	Cod liver oil, dried skimmed milk, alfalfa leaf meal, meat scraps, fish meal, bone meal, soybean oil meal, corn meal, wheat bran, wheat middlings, wheat flour middlings, oat meal, phosphatic calcium carbonate, salt.
Delaware Mills	F.	17.51	4.83	59.26	7.47	10.93	5.77	
Deposit, N. Y.								

Brand and Manufacturer		Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
		Protein	Fat	Carbo-hydrates	Ash	Moisture	Crude Fiber	
Delaware Laying Mash	G.	20.00	5.00	50.00	....	....	7.00	Cod liver oil, dried skimmed milk, meat scraps, bone meal, fish meal, soybean oil meal, corn gluten feed, corn meal, wheat bran, wheat middlings, wheat red dog flour, oat meal, barley, alfalfa leaf meal, phosphatic calcium carbonate, salt.
Delaware Mills Deposit, N. Y.	F.	**19.38**	**4.72**	56.38	10.39	9.13	6.91	
Delaware Starter and Broiler Ration	G.	18.00	4.50	55.00	....	....	6.00	Cod liver oil, dried skimmed milk, meat scraps, fish meal, bone meal, alfalfa leaf meal, corn meal, wheat bran, wheat middlings, wheat red dog, oat meal, soybean oil meal, corn gluten feed, phosphatic calcium carbonate, salt.
Delaware Mills Deposit, N. Y.	F	**17.03**	4.50	60.71	4.98	12.78	5.16	
Delaware Starter Grower-Layer	G	16.00	4.50	60.00	....	....	6.00	Cod liver oil, dried skimmed milk, meat scraps, fish meal, bone meal, corn meal, wheat bran, wheat middlings, wheat red dog, alfalfa leaf meal, oats, soybean oil meal, phosphatic calcium carbonate, salt.
Delaware Mills Deposit, N. Y.	F.	16.94	4.79	60.62	5.93	11.72	6.00	
Delco Growing Mash	G.	16.50	4.00	50.00	....	....	9.00	Cod liver oil, dried skimmed milk, meat scraps, bone meal, soybean oil meal, corn meal, oats, alfalfa meal, corn gluten meal, corn gluten feed, wheat bran, wheat middlings, phosphatic calcium carbonate, salt.
Delaware Mills Deposit, N. Y.	F.	16.59	4.83	58.19	10.99	9.40	7.82	
Delco Laying Mash	G.	17.00	4.00	50.00	....	....	9.00	Cod liver oil, dried skimmed milk, meat scraps, bone meal, soybean oil meal, corn gluten meal, corn gluten feed, wheat bran, wheat middlings, corn meal or hominy feed, oats, alfalfa meal, phosphatic calcium carbonate, salt.
Delaware Mills Deposit, N. Y.	F.	17.60	4.17	60.60	4.94	12.69	6.51	

All Purpose Complete Ration	G.	15.00	4.50	56.00	....	....	6.00	Corn meal, wheat, oats, wheat flour middlings, wheat bran, alfalfa leaf meal, dried buttermilk, meat scraps, fish meal, soybean oil meal, steamed bone meal, calcium carbonate, salt, cod liver oil.
Dietrich & Gambrill	F.	16.46	4.50	61.57	7.16	10.31	4.88	
Frederick, Md.								
Canton Laying Mash	G.	20.00	4.00	56.00	....	....	8.00	Wheat middlings, wheat bran, oats, corn meal, barley, soybean oil meal, corn gluten feed, alfalfa meal, meat scraps, fish meal, calcium carbonate, bone meal, salt, potassium iodide.
Dietrich & Gambrill	F.	22.29	4.11	56.00	7.59	10.03	6.91	
Frederick, Md.								
D & G Broiler Mash	G.	18.00	4.00	56.00	....	....	7.00	Wheat, oats, wheat bran, wheat middlings, alfalfa leaf meal, corn meal, fish meal, meat scraps, dried buttermilk, soybean oil meal, corn gluten meal, cod liver oil, bone meal, salt, calcium carbonate, potassium iodide.
Dietrich & Gambrill	F.	19.04	5.88	58.28	8.46	10.34	5.81	
Frederick, Md.								
Frederick Laying Mash	G.	18.00	4.00	53.00	....	....	8.00	Wheat bran, wheat middlings, corn feed meal, oats, barley, corn gluten meal, meat scraps, fish meal, alfalfa meal, soybean oil meal, bone meal, calcium carbonate, salt, dried buttermilk, cod liver oil, potassium iodide.
Dietrich & Gambrill	F.	20.31	4.63	55.11	10.28	9.67	6.72	
Frederick, Md.								
Gambrill's Chick Starter	G.	18.00	4.00	59.00	....	..	6.00	Oat meal, corn meal, malt flour, alfalfa leaf meal, wheat flour middlings, soybean oil meal, fish meal, meat scraps, dried buttermilk, cod liver oil, bone meal, calcium carbonate, salt, potassium iodide.
Dietrich & Gambrill	F.	**17.13**	3.78	60.48	8.43	10.18	4.17	
Frederick, Md.								

Brand and Manufacturer		Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
		Protein	Fat	Carbo-hydrates	Ash	Moisture	Crude Fiber	
[illegible] Laying Mash	G.	20.00	5.00	51.00	....	....	7.00	Wheat bran, wheat middlings, corn feed meal, linseed meal, soybean oil meal, oats, alfalfa leaf meal, corn gluten meal, malt flour, meat scraps, fish meal, dried buttermilk, bone meal, calcium carbonate, salt, cod liver oil, potassium iodide.
Dietrich & Gambrill ..... Frederick, Md.	F.	22.37	4.84	53.25	10.97	8.57	6.87	
Poultry Conditioning Ration	G.	15.00	6.00	56.00	....	....	6.00	Cracked wheat, cracked corn, corn meal, wheat red dog, oats, wheat bran, alfalfa leaf meal, dried buttermilk, fish meal, meat scraps, soybean oil meal, grit, bone meal, calcium carbonate, salt, mineral oil, peanut oil, cod liver oil, potassium iodide.
Dietrich & Gambrill ..... Frederick, Md.	F.	15.76	6.15	57.49	10.15	10.45	4.83	
Laying Mash with Cod Liver Oil	G.	17.00	4.00	52.50	....	....	7.00	Corn meal, wheat bran, wheat middlings, oats, meat scraps, fish meal, dried skimmed milk, salt, alfalfa leaf meal, oyster shell meal, soybean oil meal, cod liver oil, molasses.
[illegible] ..... Methuen, Mass.	F.	16.44	3.89	60.42	9.02	10.23	9.50	
Starting Growing Mash	G.	16.00	4.00	50.00	....	....	7.00	Corn meal, wheat bran, wheat middlings, oats, meat scraps, fish meal, dried skimmed milk, salt, alfalfa leaf meal, oyster shell meal, cod liver oil.
Dodge Grain Co. ..... Methuen, Mass.	F.	17.12	4.99	59.77	8.51	9.61	10.21	
Eastern States All Mash Developer	G.	14.50	3.50	58.00	....	....	6.00	Yellow corn meal, wheat bran, wheat flour middlings, oats, barley, alfalfa leaf meal, soybean oil meal, dried skimmed milk, meat scraps, fish meal, oyster shell meal, dicalcium phosphate, salt, sardine oil.
Eastern States Farmers' Exchange ..... Springfield, Mass.	F.	15.19	4.83	61.64	8.09	10.25	5.24	

Eastern States All Mash Egg	G.	15.50	4.00	56.00	....	....	6.00	Yellow corn meal, wheat flour middlings, wheat bran, oats, barley, meat scraps, fish meal, alfalfa leaf meal, soybean oil meal, oyster shell meal, corn gluten meal, salt, sardine oil.
Eastern States Farmers' Exchange ..... Springfield, Mass.	F.	16.03	4.55	61.76	7.44	10.22	5.21	
Eastern States Combination.....	G.	15.00	4.00	57.00	....	....	6.00	Yellow corn meal, wheat bran, wheat flour middlings, oats, meat scraps, alfalfa leaf meal, fish meal, soybean oil meal, oyster shell meal, dried skimmed milk, dried whey, dicalcium phosphate, salt, sardine oil, wheat germ oil.
Eastern States Farmers' Exchange ..... Springfield, Mass.	F.	16.42	4.55	60.86	8.24	9.93	5.31	
Eastern States Developer	G.	18.50	4.00	52.00	....	....	6.50	Yellow corn meal, wheat bran, wheat flour middlings, barley, oats, soybean oil meal, alfalfa leaf meal, fish meal, meat scraps, dried skimmed milk, dried whey, oyster shell meal, salt, dicalcium phosphate, sardine oil.
Eastern States Farmers' Exchange ..... Springfield, Mass.	F.	19.49	4.59	57.06	9.37	9.49	6.00	
Eastern States Egg Mash	G.	20.00	4.00	49.00	....	....	6.50	Yellow corn meal, wheat bran, wheat standard middlings, oats, barley, fish meal, meat scraps, soybean oil meal, alfalfa leaf meal, corn gluten meal, salt, sardine oil, oyster shell meal.
Eastern States Farmers' Exchange ..... Springfield, Mass.	F.	20.79	5.06	53.72	11.05	9.38	5.78	
Eastern States Producer 17	G.	17.00	4.00	52.00	....	....	6.00	Yellow corn meal, wheat flour middlings, wheat bran, oats, meat scraps, fish meal, alfalfa leaf meal, soybean oil meal, dried skimmed milk, dried whey, dicalcium phosphate, salt, sardine oil, wheat germ oil, oyster shell meal.
Eastern States Farmers' Exchange ..... Springfield, Mass.	F.	17.64	4.58	57.69	10.47	9.62	5.28	

Brand and Manufacturer		Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
		Protein	Fat	Carbo-hydrates	Ash	Moisture	Crude Fiber	
Eastern States Producer 29	G.	28.00	4.00	49.00	....	....	6.00	Yellow corn meal, wheat bran, oats, wheat flour middlings, meat scraps, alfalfa leaf meal, fish meal, dried skimmed milk, soybean oil meal, oyster shell meal, dried whey, dicalcium phosphate, salt, sardine oil, wheat germ oil.
Eastern States Farmers Exchange ..... Springfield, Mass.	F.	25.27	4.92	53.81	11.83	9.17	5.43	
Eastern States Starting and Broiler ...	G.	18.50	4.00	54.00	....	....	5.00	Yellow corn meal, wheat flour middlings, wheat bran, oat groats, dried skimmed milk, alfalfa leaf meal, meat scraps, fish meal, oyster shell meal, salt, dicalcium phosphate, sardine oil.
Eastern States Farmers Exchange ..... Springfield, Mass.	F.	19.49	4.99	58.13	7.79	9.60	4.88	
Elmore Complete Starter-Broiler	G.	17.00	4.00	55.00	....	....	6.00	Yellow corn meal, wheat bran, wheat middlings, oat meal flour, corn gluten meal, meat and bone meal, fish meal, soybean oil meal, oyster shell flour, dried buttermilk, alfalfa leaf meal, cod liver oil, salt.
Elmore Milling Co. ..... Oneonta, N. Y.	F.	19.00	4.76	57.08	9.90	9.26	6.28	
Elmore Egg Mash	G.	20.00	4.00	55.00	....	....	8.00	Dried skimmed milk, meat meal, second clear wheat flour, oats, wheat middlings, yellow corn meal, wheat bran, alfalfa leaf meal, fish meal, bone meal, cod liver oil, oyster shell flour, salt.
Elmore Milling Co. ..... Oneonta, N. Y.	F.	19.63	5.78	55.78	9.37	9.44	5.72	
Elmore M.A.C. Laying Mash	G.	17.00	5.00	60.00	....	....	7.00	Alfalfa leaf meal, wheat bran, mill run screenings, corn meal, fish meal, wheat middlings, dried skimmed milk, oats, meat scraps, oyster shell flour, cod liver oil, salt.
Elmore Milling Co. ..... Oneonta, N. Y.	F.	18.17	5.14	57.82	9.11	9.76	6.14	
Turkey Fattener	G.	17.00	4.00	60.00	....	....	8.00	Yellow corn meal, wheat bran, wheat middlings, oats, barley, alfalfa leaf meal, soybean oil meal, corn gluten meal, dried skimmed milk, meat scraps, oyster shell flour, cod liver oil, salt.
Elmore Milling Co. ..... Oneonta, N. Y.	F.	17.16	4.96	60.58	6.88	10.42	5.37	

Eshelman Pennsy Laying Mash	G.	18.00	5.00	50.00	....	....	9.00	Corn meal, wheat middlings, meat scraps, wheat bran, oats, alfalfa meal, soybean oil meal, cane molasses, fish meal, corn gluten feed, linseed meal, bone meal, calcium carbonate, salt, cod liver oil.
John W. Eshelman & Sons ..... Lancaster, Pa.	F.	18.87	4.45	57.70	9.06	9.92	7.14	
Eshelman Red Rose All-Mash Starter	G.	16.00	4.00	55.00	....	....	6.50	Corn meal, wheat bran, wheat middlings, oat meal, meat scraps, fish meal, soybean oil meal, alfalfa leaf meal, dried buttermilk, dried whey, linseed meal, calcium carbonate, bone meal, salt, cod liver oil.
John W. Eshelman & Sons ..... Lancaster, Pa.	F.	19.70	4.64	58.68	7.98	9.00	5.47	
Eshelman Red Rose Broiler Ration ...	G.	17.00	4.50	55.00	....	....	7.50	Corn meal, wheat bran, wheat middlings, oat meal, meat scraps, wheat red dog, soybean oil meal, alfalfa meal, dried buttermilk, dried whey, linseed meal, fish meal, calcium carbonate, salt, cod liver oil.
John W. Eshelman & Sons ..... Lancaster, Pa.	G.	19.88	4.50	57.55	8.13	9.94	6.60	
Eshelman Red Rose Chick Starter	G.	17.50	4.00	60.00	....	....	6.00	Oat meal, corn meal, wheat bran, wheat middlings, alfalfa leaf meal, dried buttermilk, dried whey, soybean oil meal, fish meal, linseed meal, bone meal, calcium carbonate, salt, cod liver oil.
John W. Eshelman & Sons ..... Lancaster, Pa.	F.	19.18	4.36	60.02	7.53	8.91	5.15	
Eshelman Red Rose Growing Mash	G.	16.00	4.00	55.00	....	....	7.00	Wheat middlings, corn meal, wheat bran, meat scraps, oats, corn gluten feed, oat meal, soybean oil meal, hominy feed, linseed meal, fish meal, dried buttermilk, dried whey, alfalfa meal, calcium carbonate, salt, cod liver oil.
John W. Eshelman & Sons ..... Lancaster, Pa.	F.	19.13	4.88	59.42	7.05	9.52	6.87	

Brand and Manufacturer		Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
		Protein	Fat	Carbo-hydrates	Ash	Mois-ture	Crude Fiber	
Eshelman Red Rose Laying Mash ..... John W. Eshelman & Sons ..... Lancaster, Pa.	G.	20.00	5.00	50.00	....	....	7.50	Wheat middlings, corn meal, meat scraps, wheat bran, corn gluten feed, oats, linseed meal, fish meal, soybean oil meal, hominy feed, alfalfa meal, dried buttermilk, dried whey, calcium carbonate, salt, cod liver oil.
	F.	20.75	5.10	56.26	8.51	9.38	7.04	
C. S. S. Mash ..... Farm Service Stores ..... Fitchburg, Mass.	G	20.00	4.00	50.00	....	....	7.00	Corn meal, wheat bran, wheat middlings, mill run wheat screenings, oats, semi-solid buttermilk, alfalfa meal, soybean oil meal, corn gluten feed, meat scraps, fish meal, calcium carbonate, salt, cod liver oil.
	F	**19.28**	**2.43**	52.25	11.04	15.00	8.19	
Diamond C Laying Mash ..... Farm Service Stores ..... Fitchburg, Mass.	G.	15.00	4.00	55.00	....	....	8.50	Corn meal, wheat bran, mill run wheat screenings, wheat middlings, oats, meat scraps, alfalfa meal, bone meal, salt.
	F.	18.39	5.35	58.82	8.06	9.38	5.66	
Eventually Gold Medal Egg Mash ..... Farm Service Stores ..... Fitchburg, Mass.	G.	19.00	5.00	53.00	....	....	8.00	Wheat bran, wheat middlings, mill run screenings, yellow corn meal, oats, alfalfa meal, meat and bone scrap, fish meal, dried skimmed milk, dried buttermilk, limestone, salt, cod liver oil.
	F.	19.26	5.47	53.07	12.61	9.59	6.35	
N. E. C. Laying Mash ..... Farm Service Stores ..... Fitchburg, Mass.	G	19.00	5.00	50.00	....	....	9.00	Corn meal, wheat bran, mill run wheat screenings, wheat flour middlings, oats, meat scraps, alfalfa meal, dried milk, fish meal, calcium carbonate, salt, cod liver oil.
	F	**17.63**	4.92	57.14	10.12	10.19	5.79	
North Star Laying Mash ..... Farm Service Stores ..... Fitchburg, Mass.	G.	20.00	5.00	45.00	....	....	7.00	Corn meal, oats, wheat bran, mill run wheat screenings, wheat middlings, corn gluten feed, linseed meal, soybean oil meal, alfalfa meal, meat scraps, fish meal, dried milk, calcium carbonate, salt, cod liver oil.
	F.	23.03	6.22	49.03	13.17	8.55	5.49	

Henfield Egg Mash	G.	20.00	4.00	50.00	....	....	7.00	Cod liver oil, meat scraps, fish meal, dried skimmed milk, alfalfa meal, oats, hominy or corn meal, wheat middlings, wheat bran, wheat flour middlings, corn gluten feed, soybean oil meal, steamed bone meal, calcium carbonate, salt.
First National Stores	F.	20.79	5.56	49.38	14.93	9.34	5.92	
Somerville, Mass.								
Garland Growing Mash with Cod Liver Oil	G.	14.00	3.00	55.00	....	....	7.00	Alfalfa leaf meal, fish meal, meat scraps, linseed meal, dried buttermilk, cod liver oil, wheat bran, wheat middlings, soybean oil meal, oats, wheat, corn meal, calcium carbonate, salt.
J. B. Garland & Son	F.	17.29	5.54	60.20	6.99	9.98	6.35	
Worcester, Mass.								
Garland Laying Mash with Cod Liver Oil	G.	18.00	3.00	55.00	....	....	7.00	Alfalfa leaf meal, soybean meal, fish meal, meat scraps, dried buttermilk, cod liver oil, linseed meal, wheat bran, wheat middlings, oats, wheat, corn meal, calcium carbonate, salt.
J. B. Garland & Son	F.	20.14	6.62	54.46	9.25	9.53	6.11	
Worcester, Mass.								
Royal Laying Mash with Cod Liver Oil	G.	18.00	3.00	50.00	....	....	8.00	Alfalfa meal, corn meal, oats, wheat, dried buttermilk, wheat bran, wheat middlings, cod liver oil, fish meal, meat scraps, linseed meal, soybean oil meal, calcium carbonate, salt.
J. B. Garland & Son	F.	19.13	5.21	56.40	9.59	9.67	6.93	
Worcester, Mass.								
Golter Special Complete Ration	G.	15.00	4.50	56.00	....	....	6.00	Yellow corn meal, wheat, oats, potassium iodide, wheat flour middlings, wheat bran, alfalfa leaf meal, dried buttermilk, meat scraps, fish meal, soybean oil meal, steamed bone meal, calcium carbonate, salt, cod liver oil, molasses.
J. R. Golter	F.	15.50	**3.96**	62.79	6.99	10.76	4.49	
Portsmouth, N. H.								

Brand and Manufacturer		Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
		Protein	Fat	Carbo-hydrates	Ash	Moisture	Crude Fiber	
Grandin's Breeder Mash D. H. Grandin Milling Co. Jamestown, N. Y.	G. F.	20.00 21.10	4.50 4.36	55.00 52.62	.... 12.02	.... 9.37	8.00 6.27	Cod liver oil, dried buttermilk, dried whey, meat and bone scrap, fish meal, soybean oil meal, corn gluten meal, alfalfa leaf meal, yellow corn meal, hominy feed, oats, barley, wheat bran, wheat middlings, calcium carbonate, salt, potassium iodide.
Grandin's Broiler Mash D. H. Grandin Milling Co. Jamestown, N. Y.	G. F.	20.00 21.01	5.00 4.88	57.00 54.16	.... 10.[illegible]	.... 9.73	8.00 6.[illegible]	Cod liver oil, dried buttermilk, dried whey, meat scraps, fish meal, soybean oil meal, corn gluten meal, alfalfa leaf meal, wheat bran, wheat middlings, wheat, feeding oat meal, yellow corn meal, hominy feed, oats, barley, calcium carbonate, salt, potassium iodide.
Grandin's Growing Mash D. H. Grandin Milling Co. Jamestown, N. Y.	G. F.	15.00 16.68	4.00 4.92	55.00 57.54	.... 11.81	.... 9.05	8.00 6.99	Cod liver oil, dried buttermilk, meat and bone scrap, fish meal, soybean oil meal, corn gluten feed, alfalfa leaf meal, yellow corn meal, hominy feed, oats, barley, wheat bran, wheat middlings, calcium carbonate, salt, potassium iodide.
Grandin's Laying Mash D. H. Grandin Milling Co. Jamestown, N. Y.	G. F.	[illegible] **18.87**	4.[illegible] 4.[illegible]	[illegible] 5[illegible].[illegible]	11.[illegible]	[illegible]	[illegible] [illegible]	Cod liver oil, dried buttermilk, ground meat and bone, fish meal, soybean oil meal, corn gluten meal, corn gluten feed, alfalfa leaf meal, yellow corn meal, hominy feed, oats, barley, wheat bran, wheat middlings, calcium carbonate, salt, potassium iodide.

Grandin's Start to Finish Mash ..... D. H. Grandin Milling Co. ..... Jamestown, N. Y.	G.	16.00	4.00	58.00	....	....	7.00	Cod liver oil, dried buttermilk, meat and bone scrap, fish meal, soybean oil meal, corn gluten feed, alfalfa leaf meal, yellow corn meal, hominy feed, oats, barl y, wheat bran, wheat middlings, calcium carbonate, salt, potassium iodide.
	F.	18.13	5.32	58.92	8.53	9.10	6.87	
M-S Money Saver Laying Mash ..... D. H. Grandin Milling Co. ..... Jamestown, N. Y.	G.	18.00	4.00	50.00	....	....	8.00	Dried whey, meat and bone scrap, fish meal, yellow corn meal, hominy feed, barley, oats, soybean oil meal, alfalfa leaf meal, corn gluten feed, wheat bran, wheat middlings, calcium carbonate, salt, potassium iodide, cod liver oil.
	F.	**16.90**	**3.74**	58.82	11.56	8.98	7.17	
Daily Egg Laying Mash Feed ..... Great Atlantic & Pacific Tea Co. ..... New York, N. Y.	G.	20.00	4.00	55.50	....	....	6.50	Oats, barley, soybean oil meal, linseed meal, corn gluten meal, wheat standard middlings, wheat bran, alfalfa meal, corn feed meal, dried buttermilk, dried skimmed milk, meat and bone scrap, fish meal, flour middlings, cod liver oil, cod liver meal, calcium carbonate, steamed bone meal, salt, red iron oxide, potassium iodide.
	F.	20.09	4.43	54.40	10.62	10.46	6.63	
Daily Growth Growing Mash ..... Great Atlantic & Pacific Tea Co. ..... New York, N. Y.	G.	17.50	4.00	56.50	....	....	6.50	Meat and bone scrap, dried buttermilk, dried skimmed milk, wheat bran, alfalfa meal, wheat standard middlings, corn feed meal, oats, barley, linseed meal, corn gluten feed, cod liver oil, calcium carbonate, steamed bone meal, salt.
	F.	19.09	3.82	58.70	8.64	9.75	7.54	

Brand and Manufacturer		Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
		Protein	Fat	Carbo-hydrates	Ash	Moisture	Crude Fiber	
Cheshire County Mash E. C. & W. L. Hopkins Greenfield, N. H.	G. F.	18.00 18.43	4.00 4.47	50.00 55.68	.... 11.11	.... 10.31	5.00 6.27	Standard wheat bran, corn meal, corn gluten feed, beef scraps, wheat middlings, rolled oats, alfalfa leaf meal, oats, calcium carbonate, salt.
Granite State Breeder Mash E. C. & W. L. Hopkins Greenfield, N. H. Greenfield, N. H.	G. F.	20.00 21.19	4.00 4.76	50.00 50.77	.... 12.22	.... 11.06	6.00 5.32	Corn meal, wheat middlings, wheat bran, barley, meat scraps, fish meal, kelp, alfalfa meal, oats, dried whey, soybean oil meal, lactoflavin concentrate, oyster shell meal, cod liver oil, wheat germ oil.
Granite State Chick Starter E. C. & W. L. Hopkins Greenfield, N. H.	G. F.	16.00 18.48	4.00 5.71	50.00 55.29	.... 10.38	.... 10.14	6.0[illegible] 4.93	Yellow corn meal, wheat bran, wheat middlings, wheat red dog, feeding oat meal, dried skimmed milk, meat scraps, alfalfa leaf meal, kelp, fish meal, charcoal, calcium carbonate, cod liver oil.
Granite State Complete Mash E. C. & W. L. Hopkins Greenfield, N. H.	G. F.	15.00 17.1[illegible]	4.00 4.87	56.00 58.12	.... 10.07	.... 10.12	9.00 6.4[illegible]	Corn, oats, wheat, wheat bran, wheat middlings, alfalfa leaf meal, soybean oil meal, kelp, dried skimmed milk, meat scraps, fish meal, calcium carbonate, cod liver oil.
Granite State Egg Mash E. C. & W. L. Hopkins Greenfield, N. H.	G. F.	19.00 19.79	4.00 4.68	50.00 58.28	.... 6.97	.... 10.[illegible]8	5.50 5.15	Dried skimmed milk, oats, corn, wheat middlings, wheat bran, barley, meat scraps, alfalfa leaf meal, kelp, fish meal, calcium carbonate, cod liver oil.
Granite State Growing Mash E. C. & W. L. Hopkins Greenfield, N. H.	G. F.	17.00 17.38	4.00 5.52	58.00 56.92	.... 10.56	.... 9.6[illegible]	6.50 5.1[illegible]	Corn, wheat bran, wheat middlings, wheat red dog, wheat, alfalfa leaf meal, oats, meat scraps, dried skimmed milk, kelp, fish meal, oyster shell meal, cod liver oil.

Johnson's Mash Feed Ralph P. Johnson & Son Potter Place, N. H.	G. F.	18.00 18.60	4.00 4.58	50.00 56.61	.... 9.67	.... 10.54	7.00 5.58	Corn meal, wheat middlings, oats, wheat bran, meat scraps, corn gluten feed, alfalfa meal, charcoal, soybean oil meal, dried skimmed milk, calcite flour, bone meal, cod liver oil, salt.
Apex Growing Mash Kasco Mills Waverly, N. Y.	G. F.	17.00 19.62	4.00 4.40	50.00 56.12	.... 9.00	.... 10.86	8.50 6.92	Corn meal, oats, barley, wheat bran, wheat middlings, linseed meal, soybean oil meal, alfalfa meal, meat scraps, fish meal, bone meal, dried skimmed milk, milk sugar feed, lactoflavin, salt, calcite, cod liver oil.
Apex Laying Mash Kasco Mills Waverly, N. Y.	G. F.	20.00 20.27	4.00 4.59	50.00 52.33	.... 13.20	.... 9.61	8.50 5.79	Wheat bran, wheat middlings, corn meal, linseed meal, soybean oil meal, oats, meat scraps, bone meal, fish meal, dried skimmed milk, milk sugar feed, barley, salt, calcite, cod liver oil, alfalfa meal, lactoflavin concentrate.
Kasco All Mash Chick Food Kasco Mills Waverly, N. Y.	G. F	17.00 19.00	4.00 4.92	55.00 57.22	.... 8.84	.... 10.02	5.50 4.58	Wheat red dog, oat meal, wheat middlings, wheat bran, corn meal, meat scraps, fish meal, bone meal, linseed meal, soybean oil meal, dried skimmed milk, milk sugar feed, lactoflavin, salt, cod liver oil, calcite, alfalfa leaf meal.
Kasco All Mash Growing Food Kasco Mills Waverly, N. Y.	G. F.	14.00 15.76	4.00 4.59	55.00 62.81	.... 6.41	.... 10.13	5.50 5.83	Wheat red dog, oat meal, wheat middlings, wheat bran, corn meal, meat scraps, fish meal, bone meal, linseed meal, dried skimmed milk, milk sugar feed, salt, calcite, cod liver oil, alfalfa leaf meal, oats, soybean oil meal, lactoflavin concentrate.

Brand and Manufacturer		Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
		Protein	Fat	Carbo-hydrates	Ash	Mois-ture	Crude Fiber	
Kasco All Mash Laying Food	G.	15.00	4.00	55.00	....	....	6.00	Wheat bran, wheat middlings, corn meal, linseed meal, soybean oil meal, oat meal, barley, wheat red dog, meat scraps, bone meal, fish meal, dried skimmed milk, milk sugar feed, salt, calcite, cod liver oil, alfalfa meal, oats, lactoflavin concentrate.
Kasco Mills, Waverly, N. Y.	F.	16.81	4.56	60.55	7.48	10.60	5.24	
Kasco Broiler Ration	G.	18.00	4.00	50.00	....	....	5.50	Wheat bran, wheat middlings, corn meal, linseed meal, soybean oil meal, oat meal, wheat red dog, meat scraps, bone meal, fish meal, dried skimmed milk, milk sugar feed, calcite, salt, cod liver oil, alfalfa leaf meal, lactoflavin concentrate.
Kasco Mills, Waverly, N. Y.	F.	20.79	4.99	56.19	8.02	10.01	5.17	
Kasco Laying Mash	G.	20.00	4.00	50.00	....	....	6.50	Wheat bran, wheat middlings, corn meal, linseed meal, soybean oil meal, oat meal, wheat red dog, meat scraps, bone meal, fish meal, dried skimmed milk, milk sugar feed, salt, calcite, cod liver oil, alfalfa meal, oats, lactoflavin concentrate.
Kasco Mills, Waverly, N. Y.	F.	20.40	5.60	51.97	12.54	9.49	6.80	
Kasco Poultry Pattener	G.	13.00	4.50	60.00	....	....	5.00	Corn meal, oats, meat scraps, wheat middlings, wheat red dog, soybean oil meal, linseed meal, corn germ meal, salt.
Kasco Mills, Waverly, N. Y.	F.	17.20	6.17	60.90	5.84	9.89	5.73	
Larro Broiler Feed	F.	18.00	4.00	56.50	....	....	6.50	Yellow corn meal, wheat standard middlings, alfalfa meal, wheat bran, meat and bone scraps, dried buttermilk, soybean oil meal, fish meal, dried skimmed milk, oats, cod liver oil, limestone, salt.
Larrowe Milling Co., Detroit, Mich.	F.	18.43	4.23	57.71	9.44	10.19	5.70	

Larro Chick Builder Larrowe Milling Co. Detroit, Mich.	G. F.	19.00 20.75	4.00 4.36	53.00 54.32	.... 10.93	.... 9.64	7.00 6.32	Wheat bran, yellow corn meal, wheat standard middlings, barley, meat and bone scrap, soybean oil meal, fish meal, alfalfa meal, dried skimmed milk, dried buttermilk, oats, cod liver oil, limestone, salt.
Larro Egg Mash Larrowe Milling Co. Detroit, Mich.	G. F.	20.00 21.10	4.00 4.47	52.50 54.93	.... 9.49	.... 10.01	7.50 5.99	Wheat bran, yellow corn meal, wheat standard middlings, barley, meat and bone scrap, soybean oil meal, fish meal, alfalfa meal, dried skimmed milk, dried buttermilk, oats, cod liver oil, limestone, salt.
Larro Turkey Finisher Larrowe Milling Co. Detroit, Mich.	G. F.	19.00 20.09	3.50 4.50	52.00 56.37	.... 10.22	.... 8.82	7.00 6.05	Yellow corn meal, wheat standard middlings, wheat bran, meat and bone scrap, soybean oil meal, barley, oats, dried buttermilk, dried skimmed milk, alfalfa meal, limestone, salt.
B-B Broiler Ration Maritime Milling Co. Buffalo, N. Y.	G. F.	20.00 20.44	4.00 4.75	55.00 57.51	.... 7.54	.... 9.76	7.00 7.15	Cod liver oil, kelp meal, milk sugar feed, dried buttermilk, alfalfa meal, wheat bran, mill run screenings, wheat flour middlings, wheat, corn meal, oats, barley, oat meal, soybean oil meal, corn gluten meal, meat and bone meal, fish meal, calcium carbonate, salt, potassium iodide.
B-B Complete Chick Starter Ration Maritime Milling Co. Buffalo, N. Y.	G. F.	20.00 **18.97**	4.00 4.37	60.00 57.03	.... 8.88	.... 10.75	6.00 6.17	Cod liver oil, kelp meal, milk sugar feed, dried buttermilk, alfalfa leaf meal, wheat middlings, wheat bran, wheat, corn gluten meal, corn meal, oats, barley, soybean oil meal, oat meal, meat and bone meal, fish meal, calcium carbonate, potassium iodide, salt.

Brand and Manufacturer		Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
		Protein	Fat	Carbo-hydrates	Ash	Moisture	Crude Fiber	
B-B Daisy Egg Mash Maritime Milling Co. Buffalo, N. Y.	G. F.	20.00 20.93	3.50 4.46	55.00 54.77	.... 8.84	.... 11.00	2.50 8.27	Cod liver oil, dried buttermilk, alfalfa meal, wheat bran, wheat middlings, mill run screenings, soybean oil meal, corn gluten meal, corn meal, barley, oats, meat and bone meal, fish meal, calcium carbonate, salt.
B B Fattening Mash Maritime Milling Co. Buffalo, N. Y.	G. F.	13.00 15.38	4.00 4.31	60.00 65.33	.... 4.32	.... 10.66	6.00 5.48	Milk, sugar feed, dried buttermilk, wheat flour middlings, wheat middlings, mill run screenings, corn meal, corn gluten meal, corn germ meal, alfalfa meal, barley, oats, linseed meal, oat meal, meat and bone meal, calcium carbonate, salt.
B B Layer and Breeder Mash Maritime Milling Co. Buffalo, N. Y.	G. F.	20.00 20.57	4.50 4.57	50.00 56.22	.... 8.07	.... 10.57	7.00 7.00	Cod liver oil, liver meal, milk sugar feed, dried buttermilk, alfalfa leaf meal, wheat bran, wheat middlings, mill run screenings, soybean oil meal, corn gluten meal, corn meal, barley, oat meal, meat and bone meal, fish meal, calcium carbonate, salt, potassium iodide.
B B Starter and Growing Ration Maritime Milling Co. Buffalo, N. Y.	G. F.	17.00 20.49	4.00 4.54	55.00 55.56	.... 9.30	.... 10.11	7.00 6.03	Cod liver oil, milk sugar feed, dried buttermilk, alfalfa leaf meal, wheat bran, wheat middlings, mill run screenings, soybean oil meal, corn gluten meal, corn meal, barley, oats, wheat, oat meal, meat and bone meal, fish meal, calcium carbonate, salt, potassium iodide.
Merrimack A2 Mash Merrimack Farmers' Exchange Concord, N. H.	G F	15.00 15.94	4.00 4.20	60.00 62.29	.... 6.65	.... 10.92	6.00 4.18	Oats, cracked wheat, corn meal, wheat bran, soybean oil meal, oat groats, alfalfa leaf meal, meat scraps, fish meal, dried skimmed milk, calcium carbonate, steamed bone meal, salt, cod liver oil.

Merrimack Chick Starter	G.	16.00	4.00	50.00	....	....	4.00	Soybean oil meal, corn meal, cracked corn, wheat flour middlings, wheat standard middlings, wheat bran, cracked wheat, meat scraps, fish meal, cut oat groats, dried skimmed milk, steamed bone meal, alfalfa leaf meal, salt, calcium carbonate, cod liver oil.
Merrimack Farmers' Exchange	F.	17.73	4.80	60.05	7.43	9.99	3.96	
Concord, N. H.								
Merrimack Growing Mash	G.	17.00	4.25	50.00	....	....	5.00	Soybean oil meal, corn meal, wheat bran, wheat red dog, wheat middlings, oat groats, alfalfa leaf meal, fish meal, skimmed milk, meat scraps, bone meal, calcium carbonate, salt, cod liver oil.
Merrimack Farmers' Exchange	F.	18.69	5.03	56.91	9.67	9.70	4.47	
Concord, N. H.								
Merrimack Laying Mash	G.	18.00	4.25	50.00	....	....	5.00	Soybean oil meal, corn meal, wheat bran, wheat flour middlings, wheat standard middlings, oat groats, fish meal, alfalfa leaf meal, oats, dried skimmed milk, meat scraps, steamed bone meal, calcium carbonate, salt, cod liver oil.
Merrimack Farmers' Exchange	F.	18.17	5.38	55.86	10.17	10.42	4.82	
Concord, N. H.								
Merrimack Special Mash	G.	18.00	5.00	50.00	....	....	8.00	Soybean oil meal, wheat middlings, corn meal, alfalfa leaf meal, wheat bran, oats, meat scraps, fish meal, calcium carbonate, cod liver oil.
Merrimack Farmers' Exchange	F.	19.79	5.07	54.21	10.42	10.51	5.49	
Concord, N. H.								
Merrimack Super Mash	G.	18.00	5.00	50.00	....	....	5.00	Corn meal, soybean oil meal, oat groats, wheat flour middlings, wheat standard middlings, wheat bran, meat scraps, fish meal, dried skimmed milk, alfalfa leaf meal, steamed bone meal, calcium carbonate, salt, cod liver oil.
Merrimack Farmers' Exchange	F.	18.04	5.00	57.50	9.37	10.09	4.64	
Concord, N. H.								
Northeastern Layer Mash	G.	20.00	4.50	54.00	....	....	8.00	Corn meal, oats, wheat bran, wheat middlings, soybean oil meal, fish meal, alfalfa meal, dried skimmed milk, beef scraps, oyster shell meal, salt, sardine oil.
Northeastern Supply Co.	F.	20.53	6.65	51.86	11.50	9.46	6.09	
Ipswich, Mass.								

Brand and Manufacturer		Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
		Protein	Fat	Carbo-hydrates	Ash	Mois-ture	Crude Fiber	
Northeastern Range Mash ..... Northeastern Supply Co. ..... Ipswich, Mass.	G.	19.00	4.00	52.00	....	....	7.00	Corn meal, oats, barley, wheat bran, wheat middlings, alfalfa meal, corn gluten feed, soybean oil meal, dried skimmed milk, beef scraps, fish meal, oyster shell meal, salt, sardine oil.
	F.	20.66	5.39	53.62	10.38	9.75	6.81	
Northeastern Starter Broiler ..... Northeastern Supply Co. ..... Ipswich, Mass.	G.	17.00	4.50	53.00	....	....	6.00	Corn meal, wheat bran, wheat middlings, alfalfa leaf meal, corn gluten feed, oat meal, dried skimmed milk, beef scraps, fish meal, oyster shell meal, salt, sardine oil.
	F.	18.91	5.69	55.92	9.46	10.02	5.56	
Bidwell Growing Feed ..... Park & Pollard Co. ..... Boston, Mass.	G.	15.00	3.00	50.00	....	....	7.00	Dried buttermilk, corn meal, alfalfa meal, oats, wheat, meat, bone, corn gluten meal, buckwheat, wheat bran, soybean oil meal, barley, fish meal, calcium carbonate, salt, cod liver oil.
	F.	19.39	4.28	56.35	10.51	9.47	7.33	
Bidwell Laying Mash ..... Park & Pollard Co. ..... Boston, Mass.	G.	18.00	3.00	50.00	....	....	8.00	Dried buttermilk, alfalfa meal, corn meal, wheat bran, mill run wheat screenings, wheat middlings, fish meal, meat, bone, linseed meal, corn gluten meal, soybean oil meal, calcium carbonate, salt, wheat, oats, barley, kaffir corn, buckwheat, cod liver oil.
	F.	18.30	3.95	58.33	9.26	10.16	7.02	
Hi-Vala Scratch Feed (Pellets) ..... Park & Pollard Co. ..... Boston, Mass.	G.	10.00	7.50	55.00	....	....	2.50	Yellow corn, wheat, buckwheat, barley, alfalfa meal, wheat middlings, corn gluten feed, hominy, molasses, calcium carbonate, cod liver oil, oats.
	F.	11.33	3.14	67.43	6.13	11.97	6.15	

Lay or Bust Dry Mash	G.	18.00	3.00	50.00	....	....	7.00	Dried buttermilk, alfalfa leaf meal, corn gluten meal, fish meal, meat and bone scrap, soybean oil meal, wheat bran, mill run wheat screenings, wheat middlings, calcium carbonate, salt, corn, wheat, oats, barley, kaffir corn, buckwheat, cod liver oil, linseed meal.
Park & Pollard Co.	F.	18.39	3.98	59.11	9.12	9.40	7.07	
Boston, Mass.								
Manamar Lay or Bust Dry Mash	G.	18.00	3.00	50.00	....	....	7.00	Kelp, fish meal, sea shells, dried buttermilk, alfalfa leaf meal, corn gluten meal, meat and bone scrap, linseed meal, soybean oil meal, wheat bran, mill run wheat screenings, wheat middlings, calcium carbonate, salt, corn, wheat, oats, barley, kaffir corn, buckwheat, cod liver oil.
Park & Pollard Co.	F.	20.22	4.13	56.48	10.09	9.08	7.00	
Boston, Mass.								
Manamar Life Cycle Mash	G.	16.00	3.50	55.00	....	....	7.00	Kelp, fish meal, sea shells, meat scraps, wheat bran, mill run wheat screenings, wheat middlings, soybean oil meal, alfalfa leaf meal, corn gluten meal, dried buttermilk, yellow corn meal, oats, wheat, barley, buckwheat, cod liver oil.
Park & Pollard Co.	F.	17.51	3.91	58.99	10.34	9.25	7.00	
Boston, Mass.								
Park and Pollard Starter and Broiler Mash	G.	18.00	4.00	50.00	....	....	6.00	Yellow corn meal, wheat bran, wheat flour middlings, oats, fish meal, meat scraps, corn gluten meal, soybean oil meal, alfalfa leaf meal, calcium carbonate, salt, dried skimmed milk, cod liver oil.
Park & Pollard Co.	F.	17.34	4.13	59.02	9.20	10.31	6.36	
Boston, Mass.								
Purina Broiler Chow	G.	18.00	4.00	53.00	....	....	7.00	Carotene, dried buttermilk, cod liver oil, sardine oil, meat scraps, fish meal, soybean oil meal, alfalfa leaf meal, corn meal, oats, wheat middlings, wheat bran, alfalfa meal, calcium carbonate, iodized salt.
Purina Mills	F.	19.48	4.65	58.65	7.18	10.04	5.40	
St. Louis, Mo.								
Purina Chicken Fatena	G.	14.00	4.00	61.50	....	....	7.50	Oats, corn meal, barley, corn germ meal, second clear wheat flour, grey wheat middlings, soybean oil meal, meat scraps, rolled oats, iodized salt.
Purina Mills	F.	17.77	4.77	64.51	3.80	9.15	6.71	
St. Louis, Mo.								

Brand and Manufacturer		Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
		Protein	Fat	Carbo-hydrates	Ash	Mois-ture	Crude Fiber	
Purina Egg Chowder	G.	21.00	4.00	50.00	....	....	8.00	Carotene, cod liver oil, sardine oil, meat scraps, soybean oil meal, fish meal, alfalfa meal, dried buttermilk, corn germ meal, wheat middlings, wheat bran, corn meal, oats, iodized salt, calcium carbonate.
Purina Mills	F.	22.64	5.87	51.18	11.90	8.41	7.96	
St. Louis, Mo.								
Purina Family Flock Chow	G.	18.00	3.50	55.00	....	....	8.00	Carotene, meat scraps, soybean oil meal, alfalfa meal, dried buttermilk, wheat middlings, wheat bran, corn meal, barley, corn gluten feed, cod liver oil, sardine oil, calcium carbonate, iodized salt.
Purina Mills	F.	19.91	4.51	55.04	11.45	9.09	7.11	
St. Louis, Mo.								
Purina Growing Chow	G.	17.00	3.50	55.00	....	....	7.00	Carotene, cod liver oil, sardine oil, meat scraps, fish meal, soybean oil meal, wheat germ, dried buttermilk, corn germ meal, grey wheat middlings, wheat bran, alfalfa meal, corn meal, calcium carbonate, iodized salt.
Purina Mills	F.	19.81	4.87	57.61	8.73	9.48	5.86	
St. Louis, Mo.								
Purina Lay Chow	G.	21.00	4.00	50.00	....	....	8.00	Carotene, cod liver oil, sardine oil, meat scraps, soybean oil meal, fish meal, alfalfa meal, dried buttermilk, corn germ meal, wheat middlings, wheat bran, corn meal, oats, iodized salt, calcium carbonate.
Purina Mills	F.	22.37	6.03	51.95	11.38	8.27	7.78	
St. Louis, Mo.								
Purina Layena	G.	15.50	3.50	55.00	....	....	8.00	Carotene, cod liver oil, sardine oil, meat scraps, oats, fish meal, soybean oil meal, alfalfa meal, dried buttermilk, wheat middlings, beet pulp, corn meal, iodized salt, calcium carbonate.
Purina Mills	F.	17.69	5.21	58.99	8.75	9.36	5.49	
St. Louis, Mo.								
Protena Laying Mash	G.	18.00	3.50	52.50	....	....	8.50	Meat scraps, soybean oil meal, linseed meal, corn meal, dried buttermilk, cod liver oil, sardine oil, alfalfa meal, wheat middlings, wheat bran, calcium carbonate, salt.
Purina Mills	F.	20.00	5.57	55.06	10.27	9.10	8.06	
St. Louis, Mo.								

Purina Turkey Growing Chow	G.	21.00	3.50	51.00	....	....	8.00	Carotene, meat scraps, soybean oil meal, alfalfa meal, dried buttermilk, corn meal, wheat middlings, wheat bran, iodized salt.
Purina Mills	F.	22.55	5.16	54.67	7.16	10.46	5.59	
St. Louis, Mo.								
Big Egg Laying Mash	G.	18.00	4.00	58.00	....	....	8.00	Hominy feed, yellow hominy feed, wheat bran, wheat standard middlings, oats, fish meal, soybean oil meal, meat scraps, sardine oil, dried skimmed milk, molasses, alfalfa meal, salt.
Quaker Oats Co.	F.	19.09	4.93	61.61	6.03	8.34	7.41	
Chicago, Ill.								
Ful-O-Pep Egg Breeder Mash	G.	20.00	4.50	52.00	....	....	8.00	Oat meal, hominy feed, yellow hominy feed, wheat bran, wheat standard middlings, barley meal, fish meal, cod liver meal, meat scraps, sardine oil, dried whey, dried buttermilk, molasses, alfalfa meal, salt.
Quaker Oats Co.	F.	20.44	5.83	57.41	7.95	8.37	7.40	
Chicago, Ill.								
Quaker Ful-O-Pep Chick Starter	G.	17.00	5.00	57.00	....	....	7.00	Oat meal, yellow hominy feed, wheat bran, wheat standard middlings, fish meal, cod liver meal, meat scraps, sardine oil, dried skimmed milk, dried buttermilk, molasses, alfalfa meal, salt.
Quaker Oats Co.	F.	17.29	5.68	63.29	5.62	8.12	6.24	
Chicago, Ill.								
Quaker Ful-O-Pep Egg Mash	G.	20.00	4.50	53.00	....	....	8.00	Oat meal, hominy feed, yellow hominy feed, wheat bran, wheat standard middlings, barley meal, fish meal, cod liver meal, meat scraps, sardine oil, dried skimmed milk, dried buttermilk, molasses, alfalfa meal, salt.
Quaker Oats Co.	F.	20.93	5.92	57.15	8.56	7.44	7.23	
Chicago, Ill.								
Wirthmore Battery Ration	G.	15.00	4.00	60.00	....	....	6.00	Cod liver oil, dried skimmed milk, dried whey, liver meal, meat scraps, fish meal, alfalfa meal, yellow corn meal, wheat, wheat bran, wheat standard middlings, oats, barley, calcium carbonate, salt.
St. Albans Grain Co.	F.	16.99	4.04	59.54	8.21	11.22	4.21	
St. Albans, Vt.								
Wirthmore Complete Chick Starter and Broiler Ration	G.	17.50	4.00	58.00	....	....	5.50	Cod liver oil, dried skimmed milk, dried whey, oat groats, meat scraps, fish meal, alfalfa leaf meal, corn gluten meal, soybean oil meal, yellow corn meal, wheat bran, wheat middlings, calcium carbonate, salt.
St. Albans Grain Co.	F.	20.22	4.36	55.21	10.20	10.01	5.50	
St. Albans, Vt.								

Brand and Manufacturer		Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
		Protein	Fat	Carbo-hydrates	Ash	Mois-ture	Crude Fiber	
Wirthmore Complete Egg Ration ..... St. Albans Grain Co. ..... St. Albans, Vt.	G.	15.00	4.00	60.00	....	....	6.00	Cod liver oil, dried skimmed milk, dried whey, meat scraps, fish meal, corn gluten meal, soybean oil meal, alfalfa meal, yellow corn meal, wheat, oats, barley, wheat bran, wheat middlings, calcium carbonate, salt.
	F.	15.59	4.02	62.09	7.28	11.02	4.98	
Wirthmore Complete Growing Ration .. St. Albans Grain Co. ..... St. Albans, Vt.	G.	14.00	3.75	65.00	....	....	6.00	Cod liver oil, dried skimmed milk, dried whey, meat scraps, fish meal, soybean oil meal, corn gluten meal, yellow corn meal, wheat, oats, barley, alfalfa leaf meal, wheat bran, wheat middlings, calcium carbonate, salt.
	F.	14.49	4.44	63.88	6.82	10.37	4.60	
Wirthmore Complete Laying Ration ... St. Albans Grain Co. ..... St. Albans, Vt.	G.	15.00	4.00	60.00	....	....	5.00	Cod liver oil, dried skimmed milk, dried whey, liver meal, meat scraps, fish meal, oat groats, yellow corn meal, oats, alfalfa leaf meal, wheat, wheat bran, wheat middlings, calcium carbonate, salt.
	F.	16.46	5.26	58.70	9.24	10.34	4.15	
Wirthmore Fleshing Pellets ..... St. Albans Grain Co. ..... St. Albans, Vt.	G.	15.00	4.50	60.00	....	....	6.50	Dried skimmed milk, meat scraps, soybean oil meal, corn germ meal, oat meal, wheat bran, wheat middlings, wheat red dog flour, yellow corn meal, alfalfa meal, calcium carbonate, salt, cod liver oil, molasses.
	F.	15.50	4.59	61.61	8.34	9.96	5.69	
Wirthmore Growing Mash with Cod Liver Oil ..... St. Albans Grain Co. ..... St. Albans, Vt.	G.	15.00	4.50	55.00	....	....	6.00	Cod liver oil, dried skimmed milk, dried whey, meat scraps, fish meal, yellow corn meal, alfalfa leaf meal, linseed meal, wheat, oats, barley, soybean oil meal, corn gluten meal, wheat bran, wheat middlings, wheat red dog, calcium carbonate, salt.
	F.	16.07	4.53	60.79	7.98	10.63	4.95	

Wirthmore Laying Mash	G.	20.00	4.00	50.00	....	....	7.00	Cod liver oil, dried skimmed milk, dried whey, meat scraps, fish meal, yellow corn meal, alfalfa meal, soybean oil meal, corn gluten meal, wheat bran, wheat middlings, wheat, oats, barley, buckwheat, calcium carbonate, salt.
St. Albans Grain Co. St. Albans, Vt.	F.	20.31	4.73	54.14	10.18	10.64	5.28	
Feed Board Egg Mash	G.	18.00	4.00	53.00	....	....	6.50	Corn meal, wheat bran, wheat flour middlings, oats, fish meal, alfalfa leaf meal, dried skimmed milk, oyster shell meal, cod liver oil, beef scraps, dicalcium phosphate, salt.
South End Hay and Grain Co. Manchester, N. H.	F.	19.09	4.37	54.98	10.17	11.39	6.10	
Starting and Growing Broiler Rations	G.	17.00	4.00	53.00	....	....	5.00	Corn meal, wheat bran, dried skimmed milk, wheat flour middlings, oats, beef scraps, fish meal, oyster shell meal, cod liver oil, alfalfa leaf meal, bone meal, salt.
South End Hay and Grain Co. Manchester, N. H.	F.	17.00	4.46	57.74	9.85	10.95	6.14	
Favorite Growing Mash	G.	16.00	3.50	55.00	....	....	7.00	Corn meal, oats, soybean oil meal, wheat bran, wheat middlings, dried buttermilk, meat scraps, alfalfa meal, cane molasses, bone meal, charcoal, salt, cod liver oil.
Jacob Trinley & Sons Linfield, Pa.	F.	18.47	6.97	58.01	7.41	9.14	8.31	
Favorite Laying Mash	G.	18.00	4.00	50.00	....	....	8.00	Corn meal, meat scraps, buttermilk, soybean oil meal, wheat bran, wheat middlings, oats, corn gluten feed, molasses, salt, calcium carbonate, bone meal, alfalfa meal, charcoal, cod liver oil.
Jacob Trinley & Sons Linfield, Pa.	F.	19.92	5.59	55.19	10.44	8.86	8.00	
Limerick Laying Mash	G.	18.00	3.00	55.00	....	....	8.00	Soybean oil meal, corn meal, meat scraps, alfalfa meal, oats, corn gluten feed, wheat bran, wheat middlings, cane molasses, calcium carbonate, charcoal, salt.
Jacob Trinley & Sons Linfield, Pa.	F.	21.49	5.17	56.25	7.29	9.80	8.23	
Real Starter and Developer Mash	G.	16.00	4.00	55.00	....	....	7.00	Corn meal, alfalfa meal, bone meal, dried buttermilk, fish meal, meat meal, wheat bran, oat meal, wheat middlings, molasses, cod liver oil.
Jacob Trinley & Sons Linfield, Pa.	F.	17.99	5.95	56.01	10.15	9.90	6.11	

Brand and Manufacturer		Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
		Protein	Fat	Carbo-hydrates	Ash	Moisture	Crude Fiber	
Blue Seal Egg Mash	G.	19.00	4.50	54.00	....	....	6.00	Yellow corn meal, oats, wheat bran, wheat
H. K. Webster Co.	F.	19.79	4.74	54.46	10.68	10.33	5.43	middlings, meat scraps, dried skimmed milk, alfalfa leaf meal, cane molasses, corn gluten meal, calcium carbonate, salt, cod liver oil.
Lawrence, Mass.								
Blue Seal Improved All Mash Ration	G.	15.00	4.50	55.00	....	....	4.00	Yellow corn, wheat, oats, wheat bran, wheat
H. K. Webster Co.	F.	16.51	4.91	59.06	8.29	11.23	4.44	flour middlings, meat scraps, codfish meal, dried skimmed milk, alfalfa leaf meal, cane molasses, calcium carbonate, salt, cod liver oil.
Lawrence, Mass.								
Blue Seal Laying Mash	G.	20.00	4.00	54.00	....	....	6.00	Yellow corn meal, wheat bran, oats, meat
H. K. Webster Co.	F.	20.66	4.99	52.90	11.47	9.98	5.38	scraps, corn gluten meal, wheat flour middlings, barley, wheat, cane molasses, alfalfa leaf meal, dried skimmed milk, codfish meal, salt, calcium carbonate, cod liver oil..
Lawrence, Mass.								
Whiting Laying Mash	G.	17.00	4.00	55.00	....	....	5.00	Yellow corn meal, wheat bran, wheat flour
David Whiting & Sons	F.	18.78	5.23	56.58	9.89	9.52	5.85	middlings, oats, meat scraps, dried milk, fish meal, alfalfa leaf meal, calcium carbonate, salt, cod liver oil.
Wilton, N. H.								
Whiting Special Mash	G.	18.00	4.00	50.00	....	....	5.00	Wheat bran, corn meal, corn gluten feed,
David Whiting & Sons	F.	19.44	5.33	55.44	10.68	9.11	6.39	beef scraps, wheat middlings, oats, alfalfa leaf meal, calcium carbonate, salt, dried skimmed milk, cod liver oil.
Wilton, N. H.								
RYE FEED								
Rye Feed	G.	13.50	3.00	....	....	....	6.00	Rye bran, rye middlings, mill run, screenings.
Finger Lakes and Hudson Flour Mills	F.	16.99	3.00	65.41	3.69	10.91	....	
Troy, N. Y.								
SOYBEAN OIL MEAL								
Central Soybean Oil Meal	G.	41.00	4.50	35.00	....	....	7.00	
Central Soya Co.	F.	42.51	5.07	36.54	6.33	9.56	...	
Decatur, Ind.								

Evans 41% Protein Soybean Oil Meal ..	G.	41.00	4.50	29.00	....	....	7.00	
Evans Milling Co. ..... Indianapolis, Ind.	F.	45.22	4.77	36.24	6.42	7.35	....	
Soybean Oil Meal, Expeller Process .	G.	41.00	4.50	37.00	....	....	7.00	
Norris Grain Co. ..... Chicago, Ill.	F.	**39.73**	5.42	39.34	5.59	9.92	....	
Old Fort Soybean Oil Meal	G.	41.00	5.00	36.00	....	....	7.00	
Old Fort Mills ..... Marion, O.	F.	41.63	5.12	35.34	6.29	11.62	....	
Shellabarger's Cooked Soybean Oil Meal .	G.	41.00	4.50	35.00	....	....	7.50	
Shellabarger Grain Products Co. ..... Decatur, Ill.	F.	44.87	5.70	38.54	6.34	4.55	....	
Kellogg's Old Process Soybean Oil Meal ..	G.	41.00	4.50	36.00	....	....	7.00	
Spencer Kellogg & Sons ..... Chicago, Ill.	F.	42.25	4.62	35.70	6.09	11.34	....	
STOCK FEED								
Barco Stock Feed	G.	9.50	4.50	70.00	....	....	9.50	Hominy, corn meal, oat mill feed, oats, barley, linseed meal, salt.
G. N. Bartemus Co. ..... Concord, N. H.	F.	9.54	4.60	70.19	5.53	10.14	10.00	
Concord Stock Feed	G.	7.50	2.80	70.00	....	....	14.45	Hominy, corn meal, oat mill feed, salt, linseed meal, barley.
G. N. Bartemus Co. ..... Concord, N. H.	F.	8.75	4.08	72.16	5.47	9.54	13.78	
Delaware White Stock Feed	G.	9.00	3.00	65.00	....	....	12.00	Corn meal, hominy feed, wheat middlings, barley, oat middlings, oat hulls, oat shorts, salt, calcium phosphate, calcium carbonate.
Delaware Mills ..... Deposit, N. Y.	F.	11.64	4.57	69.17	5.81	8.81	12.00	

Brand and Manufacturer		Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
		Protein	Fat	Carbo-hydrates	Ash	Mois-ture	Crude Fiber	
Frederick Stock Feed	G.	7.50	3.00	72.00	....	....	12.00	Corn feed meal, oats, oat middlings, oat shorts, oat hulls, salt.
Dietrich & Gambrill	F.	10.24	3.52	72.23	4.71	9.30	10.62	
Frederick, Md.								
Elmore Stock Feed	G.	10.00	3.00	60.00	....	....	12.00	Corn meal or hominy feed, oats, oat meal by products, salt.
Elmore Milling Co.	F.	11.07	4.95	70.78	5.00	8.20	12.47	
Oneonta, N. Y.								
North Star Stock Feed	G.	9.00	3.00	50.00	....	....	12.00	Corn meal, wheat middlings, wheat red dog, barley, oat middlings, wheat screenings, salt.
Farm Service Store	F.	9.50	3.64	72.37	4.57	9.92	11.38	
Fitchburg, Mass.								
Garland Stock Feed	G.	8.50	4.00	50.00	....	....	12.00	Corn, oats, hominy feed, oat middlings, oat shorts, calcium carbonate, salt.
J. B. Garland & Son	F.	9.54	5.02	71.37	5.22	8.85	11.84	
Worcester, Mass.								
Grandin's Stock Food	G.	9.00	4.00	70.00	....	....	12.00	Hominy feed, corn meal, corn feed meal, oats, barley, oat mill feed, steamed bone meal, calcium carbonate, salt, potassium iodide.
D. H. Grandin Milling Co.	F.	9.19	3.49	72.44	6.61	8.27	10.80	
Jamestown, N. Y.								
Granite State Stock Feed	G.	9.00	5.00	60.00	....	....	10.00	White hominy, wheat red dog, oat by-products, salt.
F. C. & W. L. Hopkins	F.	9.54	5.00	71.53	5.06	8.87	8.81	
Greenfield, N. H.								
Merrimack Stock Feed	G.	9.00	4.00	60.00	....	....	11.00	Molasses, soybean oil meal, hominy, oat feed, salt, calcium carbonate, linseed meal, barley.
Merrimack Farmers' Exchange	F.	11.77	5.29	67.05	7.35	8.54	10.19	
Concord, N. H.								

Park and Pollard Stock Feed	G.	9.00	4.00	50.00	....	....	12.00	Barley, corn, oats, hominy feed, oat hulls, oat middlings, oat shorts, molasses, calcium carbonate, salt.
Park & Pollard Co. Boston, Mass.	F.	9.76	4.00	69.38	7.14	9.72	8.61	
Quaker Sugared Schumacher Feed	G.	10.00	3.00	67.00	....	....	12.00	Corn meal, hominy feed, yellow hominy feed, barley meal, soybean oil meal, low grade wheat flour, wheat standard middlings, oat mill feed, salt, iodized limestone, bone meal, molasses,
Quaker Oats Co. Chicago, Ill.	F.	11.20	3.32	70.61	6.33	8.54	9.69	
Wirthmore Stock Feed	G	9.00	4.00	70.00	....	....	9.50	Barley, oats, hominy feed, corn, oat meal mill by-products, cane molasses, bone meal, calcium carbonate, salt.
St. Albans Grain Co. St. Albans, Vt.	F.	9.50	4.63	69.55	7.42	8.90	7.56	
Stratton & Co.'s Stock Feed	G.	7.50	2.83	66.00	....	....	14.43	Oat mill feed, oat middlings, corn bran, cracked corn siftings, yellow corn meal.
Stratton & Co. Concord, N. H.	F.	7.38	2.85	70.72	8.63	10.42	14.95	
Limerick Stock Feed	G.	9.00	2.50	65.00	....	....	14.00	Soybean oil meal, cottonseed meal, corn meal, oats, oat mill by-products, molasses, salt.
Jacob Trinley & Sons Linfield, Pa.	F.	10.20	4.25	70.11	6.80	8.64	15.66	
WHEAT BRAN								
Atkinson's Wheat Bran	G.	14.00	4.00	49.00	....	....	12.00	Mill run screenings.
Atkinson Milling Co. Minneapolis. Minn.	F.	17.82	4.20	61.19	5.65	10.84	....	
Eagle Wheat Bran	G.	14.00	4.00	60.00	....	....	12.00	Wheat bran, mill run wheat screenings.
Eagle Roller Mill Co. New Ulm, Minn.	F.	17.20	5.07	59.32	6.14	12.27	....	
Dairy Maid Bran	G.	12.50	3.50	57.00	....	....	13.00	Soft winter wheat.
Federal Mill Lockport, N. Y.	F.	14.05	4.37	65.20	6.30	10.08	....	

Brand and Manufacturer		Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
		Protein	Fat	Carbo-hydrates	Ash	Mois-ture	Crude Fiber	
Lucky Bran	G.	15.00	3.00	60.00	....	....	14.00	Hard wheat, mill run screenings.
Federal Mill Lockport, N. Y.	F.	18.78	4.88	58.71	6.77	10.86	....	
Cherry Pure Winter Wheat Bran	G.	14.00	3.50	55.00	....	....	11.00	
J. F. Imbs Milling Co. St. Louis, Mo.	F	15.85	4.21	63.32	6.34	10.18	....	
Blackhawk Pure Wheat Bran	G.	15.00	3.30	62.00	....	....	12.00	
International Milling Co. Minneapolis, Minn.	F.	16.24	4.25	61.43	7.02	11.06	....	
Big Flake Pure Wheat Bran	G.	15.00	3.50	60.00	....	....	11.00	
Kansas Flour Mills Corp. Kansas City, Mo.	F.	15.10	4.21	64.28	5.92	10.49	....	
Wheat Bran	G.	15.50	3.50	58.00	....	....	11.00	Mill run screenings.
Kansas Milling Co. Wichita, Kans.	F.	15.59	4.10	62.30	6.35	11.75	....	
Stuffed Winter Wheat Bran	G.	15.00	3.50	58.00	....	....	11.00	Wheat bran, mill run wheat screenings.
Larabee Flour Mills Co. Kansas City, Mo.	F.	16.42	4.31	61.83	6.20	11.24	....	
Pure Wheat Bran	G.	14.50	3.50	61.00	....	....	11.00	
J. C. Lysle Milling Co. Leavenworth, Kans.	F.	14.62	4.34	63.63	6.45	10.96	....	

Wheat Bran	G.	14.50	3.50	61.00	....	....	11.00	Wheat bran, mill run wheat screenings.
Maney Milling Co. Omaha, Nebr.	F.	16.90	4.44	62.28	6.18	10.20	....	
Town Crier Pure Wheat Bran	G.	16.00	3.50	59.00	....	....	10.00	
Midland Flour Milling Co. Kansas City, Mo.	F.	**15.00**	4.02	63.76	7.04	10.18	....	
Moon's Wheat Bran	G.	15.00	3.00	54.00	....	....	10.00	Wheat bran, mill run screenings.
George Q. Moon & Co. Binghamton, N. Y.	F.	**14.17**	3.49	67.00	4.67	11.37	....	
Pure Wheat Bran	G.	15.00	3.50	58.00	....	....	11.00	
Moore-Lowry Flour Mills Co. Coffeyville, Kans.	F.	16.37	3.99	61.54	6.54	11.56	....	
Pure Wheat Bran	G.	14.00	3.00	49.00	....	....	10.00	
National Milling Co. Toledo, O.	F.	**13.46**	4.01	65.38	6.00	11.15	....	
Nebco Wheat Bran	G.	15.50	3.50	61.00	....	....	11.00	
Nebraska Consolidated Mills Co. Omaha, Nebr.	F.	**14.94**	4.36	63.04	7.28	10.38	....	
Pure Wheat Bran	G.	14.00	4.00	62.00	....	....	12.00	
Northwestern Consolidated Milling Co. Minneapolis, Minn.	F.	17.29	4.81	59.58	5.82	12.50	....	
Omar Pure Wheat Bran	G.	15.00	3.00	50.00	....	....	11.00	
Omar Mills Omaha, Nebr.	F.	16.02	4.93	62.10	6.35	10.60	....	

Brand and Manufacturer		Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
		Protein	Fat	Carbo-hydrates	Ash	Moisture	Crude Fiber	
Pillsbury's Hard Wheat Bran	G.	14.00	4.00	63.00	....	....	12.00	Hard wheat bran, mill run wheat screenings.
Pillsbury Flour Mills Co. ..... Minneapolis, Minn.	F.	15.80	4.40	62.68	6.02	11.10	....	
Pillsbury's Wheat Bran	G.	14.50	3.50	63.00	....	....	10.00	Wheat bran, wheat screenings.
Pillsbury Flour Mills Co. ..... Atchison, Kans.	F.	15.85	4.32	62.17	7.13	10.53	....	
Aunt Jemina Pure Wheat Bran	G.	14.50	3.50	66.00	....	....	11.00	
Quaker Oats Co. ..... Chicago, Ill.	F.	16.81	4.06	61.06	6.09	11.98	....	
Heart of America Pure Wheat Bran ..	G.	16.50	3.50	60.00	....	....	10.00	Wheat bran, mill run screenings.
Rodney Milling Co. ..... Kansas City, Mo.	F.	16.41	4.32	61.91	6.38	10.98	....	
Occident Bran	G.	14.00	4.00	61.50	....	....	11.50	Hard wheat.
Russell Miller Milling Co. ..... Minneapolis, Minn.	F.	18.30	5.15	58.89	6.06	11.60	....	
Sunbeam Wheat Bran	G.	15.00	3.50	66.00	....	....	10.00	Winter wheat bran.
Schultz, Baujan & Co.* ..... Beardstown, Ill.	F.	**13.16**	4.21	66.32	6.83	9.48	....	
Stratton & Co.'s Fancy Wheat Bran	G.	14.00	4.00	64.00	....	....	11.00	
Stratton & Co. ..... Concord, N. H.	F.	13.93	4.43	64.26	6.02	11.36	....	

Golden Loaf Bran	G.	16.00	4.00	48.00	....	....	11.00	
Tennant & Hoyt Co.	F.	17.25	4.60	60.63	6.43	11.09	....	
Lake City, Minn.								
Rowena Wheat Bran	G.	13.75	4.00	62.30	....	....	12.30	
Valley City Milling Co.	F.	13.27	4.09	65.96	5.44	11.24	....	
Portland, Mich.								
Victor Spring Wheat Bran	G.	15.00	4.00	53.30	....	....	11.00	Mill run screenings.
Victor Flour Mills	F.	17.60	4.63	59.64	6.03	12.10	....	
Victor, N. Y.								
Voigt's Pure Winter Wheat Bran	G.	14.00	3.00	49.00	....	....	10.00	
Voigt Milling Co.	F.	15.80	3.88	62.00	5.39	12.93	....	
Grand Rapids, Mich.								
Washburn's Gold Medal Hard Wheat Bran	G.	14.00	4.00	63.00	....	....	12.00	Hard wheat bran, mill run wheat screenings.
Washburn Crosby Co.	F.	15.67	4.30	61.89	6.27	11.87	....	
Buffalo, N. Y.								
Tea Table Wheat Bran	G.	14.50	3.50	58.00	....	....	11.00	Wheat bran, wheat screenings.
Weber Flour Mills Co.	F.	16.46	4.00	62.55	7.17	9.82		
Salina, Kans.								
Wheat Bran	G.	14.50	3.50	55.00	....	....	11.00	Wheat bran, wheat screenings.
Wichita Flour Mill Co.	F.	17.42	4.79	61.02	6.58	10.19	....	
Wichita, Kans.								
Wheat Bran	G.	15.00	3.50	58.00	....	....	11.00	Wheat bran, mill run wheat screenings.
William Kelly Milling Co.	F.	17.34	4.15	61.37	5.88	11.26	....	
Hutchinson, Kans.								

Brand and Manufacturer		Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
		Protein	Fat	Carbo-hydrates	Ash	Moisture	Crude Fiber	
WHEAT MIDDLINGS								
Atkinson's Wheat Standard Middlings	G.	15.00	4.00	59.50	....	....	9.50	Mill run screenings.
Atkinson Milling Co.	F.	19.82	3.87	59.47	5.19	11.64	....	
Minneapolis, Minn.								
Sunfed Wheat Standard Middlings	G.	15.00	4.00	62.00	....	....	9.50	Mill run screenings.
Commander-Larabee Milling Co.	F.	17.77	4.87	61.18	5.13	11.05	....	
Minneapolis, Minn.								
Fine Wheat Middlings	G.	15.00	5.00	65.00	....	....	9.00	Mill run screenings.
Crookston Milling Co.	F.	16.24	4.21	63.86	3.25	12.44	....	
Crookston, Minn.								
Eagle Wheat Standard Middlings	G.	[illegible]	4.00	[illegible]	....	....	9.50	Wheat standard middlings, mill run wheat screenings.
Eagle Roller Mill Co.	F.	17.08	4.30	62.65	4.89	11.08	....	
New Ulm, Minn.								
Dairy Maid Flour Middlings	G.	13.50	3.50	58.00	....	....	6.00	Mill run wheat screenings.
Nelson Mill	F.	[illegible]	4.71	62.10	8.87	9.91	....	
Lockport, N. Y.								
Lucky Standard Middlings	G.	16.00	4.50	56.00	....	....	9.50	Hard wheat, mill run screenings.
Federal Mill	F.	20.09	4.86	59.43	4.72	10.90	....	
Lockport, N. Y.								
Lucky Wheat Flour Middlings	G.	16.00	4.00	56.00	....	....	6.00	Mill run screenings.
Federal Mill	F.	19.52	4.00	58.85	6.39	11.24	....	
Lockport, N. Y.								

Wheat Standard Middlings	G.	15.00	4.00	51.00	....	....	9.50	Wheat standard middlings, mill run screenings.
Hecker-Jones-Jewell Milling Co. Buffalo, N. Y.	F.	19.70	4.92	58.85	5.32	11.21	....	
Blackhawk Wheat Standard Middlings	G.	16.00	4.50	60.50	....	....	8.50	Mill run screenings.
International Milling Co. Minneapolis, Minn.	F.	18.78	5.34	59.90	5.30	10.68	....	
Kaysee Standard Middlings	G.	17.00	4.20	52.00	....	....	7.50	Wheat standard middlings, wheat screenings.
Kansas City Mills Kansas City, Mo.	F.	17.60	4.00	61.65	4.37	12.38	....	
Extra Quality Wheat Standard Middlings	G.	16.50	5.00	60.20	....	....	9.50	Mill run screenings.
LaGrange Mills Red Wing, Minn.	F.	18.30	5.06	60.84	4.60	11.20	....	
Rex Wheat Middlings	G.	16.00	5.00	53.00	....	....	7.50	Mill run screenings.
Maple Leaf Milling Co. Toronto, Canada	F.	18.39	5.25	61.38	4.23	10.75	....	
Moon's Wheat Middlings	G.	14.00	2.85	56.00	....	....	7.50	
George Q. Moon & Co. Binghamton, N. Y.	F.	14.89	5.20	66.44	3.73	9.74	....	
Namico	G.	15.00	3.50	49.00	....	....	9.00	Wheat middlings, mill run screenings.
National Biscuit Co. Toledo, O.	F.	15.37	4.18	64.46	3.63	12.36	....	
Wheat Flour Middlings	G.	15.00	4.00	62.00	....	....	6.00	Wheat flour middlings, mill run screenings.
Northwestern Consolidated Milling Co. Minneapolis, Minn.	F.	17.34	4.21	63.01	4.25	11.19	....	

Brand and Manufacturer		Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
		Protein	Fat	Carbo-hydrates	Ash	Mois-ture	Crude Fiber	
Standard Wheat Middlings	G.	16.00	3.50	52.00	....	....	7.50	Wheat middlings, wheat screenings.
Omar Mills	F.	16.24	4.34	63.92	4.37	11.13	....	
Omaha, Nebr.								
Pillsbury's Hard Wheat Standard B Midding	G.	15.00	3.00	62.50	....	....	9.50	Hard wheat standard middlings, mill run wheat screenings.
Pillsbury Flour Mills Co.	F.	16.84	4.47	62.38	6.01	10.80	....	
Minneapolis, Minn.								
Wheat Flour Middlings	G.	16.00	3.50	61.00	....	....	6.00	Wheat flour middlings, mill run screenings.
Rodney Milling Co.	F.	18.12	4.29	62.14	5.20	10.25	....	
Kansas City, Mo.								
Occident Standard Middlings	G.	15.00	3.00	59.50	....	....	9.50	Hard wheat.
Russell-Miller Milling Co.	F.	18.74	5.48	60.26	5.03	10.49	....	
Minneapolis, Minn.								
Stratton & Co.'s Fancy Fine White Middlings	G.	14.00	4.26	66.00	....	....	6.50	
Stratton & Co.	F.	15.54	4.88	64.77	4.01	10.80	....	
Concord, N. H.								
Stratton & Co.'s Standard Wheat Middlings	G.	14.00	4.00	55.00	....	....	9.00	Mill run screenings.
Stratton & Co.	F.	14.10	4.64	64.37	4.67	12.32	....	
Concord, N. H.								
Golden Leaf Wheat Middlings	G.	17.00	3.00	58.00	....	....	8.00	Mill run screenings.
Tennant & Hoyt Co.	F.	19.65	4.73	60.56	4.52	10.74	....	
Lake City, Minn.								

Rowena Middlings	G.	14.00	4.20	64.90	....	....	6.00	Mill run wheat screenings.
Valley City Milling Co. Portland, Mich.	F.	14.41	4.20	67.29	3.18	10.92	..	
Washburn's Gold Medal Hard Wheat Standard Middlings	G.	15.00	4.00	62.50	....	....	9.50	Hard wheat standard middlings, mill run wheat screenings.
Washburn Crosby Co. Buffalo, N. Y.	F.	17.51	4.39	62.84	4.30	10.96	....	
WHEAT MIXED FEED								
Barco Mixed Feed	G.	14.00	3.00	60.00	....	....	7.00	Wheat bran, wheat red dog.
G. N. Bartemus Co. Concord, N. H	F.	16.68	3.87	64.21	4.50	10.74	....	
Eagle Wheat Mixed Feed	G.	15.00	4.00	60.50	....	....	9.50	Wheat bran, standard middlings, wheat red dog, mill run wheat screenings.
Eagle Roller Mill Co New Ulm, Minn.	F.	17.43	4.62	61.94	5.16	10.85	....	
Camel Fancy Wheat Feed	G.	16.00	4.00	64.00	....	....	7.50	
Excelsior Milling Co. Minneapolis, Minn.	F.	**14.06**	4.00	67.23	5.08	9.63	....	
Dairy Maid Mixed Feed	G.	13.00	3.50	57.00	....	....	10.00	Soft winter wheat, mill run screenings.
Federal Mill Lockport, N. Y.	F.	15.19	4.27	65.36	4.78	10.40	....	
Lucky Wheat Mixed Feed	G.	15.50	3.50	56.00	....	....	10.50	Hard wheat bran, hard wheat middlings, mill run wheat screenings.
Federal Mill Lockport, N Y.	F.	17.77	4.07	62.53	4.65	10.98	....	
Granite State Mixed Feed	G.	15.00	4.00	55.00	....	....	8.50	Wheat bran, wheat red dog, mill run screenings.
E. C. & W. L. Hopkins Greenfield, N. H.	F.	16.99	4.54	63.05	5.43	9.99	....	

Brand and Manufacturer		Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
		Protein	Fat	Carbo-hydrates	Ash	Mois-ture	Crude Fiber	
Merrimack Fancy Wheat Feed Merrimack Farmers Exchange Concord, N. H.	G.	15.00	4.00	55.00	....	....	9.00	Wheat bran, second clear flour.
	F.	16.94	4.03	63.17	5.02	10.84	....	
Moon's Mixed Feed George Q. Moon & Co. Binghamton, N. Y.	G.	15.00	4.00	56.00	....	....	10.00	Wheat bran, wheat middlings, mill run screenings.
	F.	**12.78**	**3.31**	69.17	4.61	10.13	....	
Planet Feed Northwestern Consolidated Milling Co. Minneapolis, Minn.	G.	15.00	4.00	63.00	....	....	8.00	Wheat bran, red dog wheat flour.
	F.	18.12	4.19	61.02	4.10	12.57	....	
Pillsbury's Fancy Wheat Mixed Feed Pillsbury Flour Mills Co. Minneapolis, Minn.	G.	15.00	4.00	63.50	....	....	8.50	Wheat red dog, hard wheat bran, mill run wheat screenings.
	F.	16.85	4.28	63.55	4.73	10.59	....	
Brooks' Fancy Wheat Mixed Feed Kaiser Purina Co. St. Johnsbury, Vt.	G.	15.00	4.00	63.00	....	....	8.00	Wheat bran, wheat middlings, red dog flour.
	F.	18.13	4.18	62.09	4.75	10.85	....	
Occident Mixed Feed Russell Miller Milling Co. Minneapolis, Minn.	G.	15.00	4.50	61.50	....	....	9.50	Wheat bran, wheat middlings, wheat red dog.
	F.	18.69	4.86	59.84	5.59	11.02	....	
Northern Wheat Feed St. Albans Grain Co. St. Albans, Vt.	G.	15.00	3.75	50.00	....	....	8.00	Wheat bran, wheat red dog flour, mill run screenings.
	F.	17.25	4.03	61.35	5.40	11.97	....	

Red Poll Wheat Mixed Feed	G.	15.00	4.00	60.00	....	....	9.50	Wheat bran, wheat middlings, wheat red
Standard Milling Co.	F.	15.41	5.08	63.33	4.63	11.55	....	dog flour, mill run screenings.
Duluth, Minn.								
Stratton & Co.'s Wheat Mixed Feed ...	G.	13.50	4.11	63.00	....	....	7.13	Mill run screenings.
Stratton & Co.	F.	14.32	4.69	64.81	5.14	11.04	....	
Concord, N. H.								
Rowena Mixed Feed	G.	14.00	4.10	63.60	....	....	8.20	Mill run wheat screenings.
Valley City Milling Co.	F.	13.89	4.23	67.38	4.23	10.27	....	
Portland, Mich.								
Washburn's Gold Medal Fancy Wheat	G.	15.00	3.50	65.50	....	....	7.50	Hard wheat bran, mill run wheat screen-
Mixed Feed	F.	16.15	3.97	64.28	4.05	11.55	....	ings, low grade wheat flour.
Washburn Crosby Co.								
Buffalo, N. Y.								
WHEAT RED DOG								
Atkinson's Watchword Wheat Red Dog ..	G.	16.00	3.50	60.00	....	....	4.00	
Atkinson Milling Co.	F.	21.45	**2.72**	60.62	3.35	11.86	....	
Minneapolis, Minn.								
Red Dog Wheat Flour	G.	15.00	3.00	60.00	....	....	3.00	
Duluth-Superior Milling Co.	F.	17.12	3.59	64.96	2.57	11.76	....	
Duluth, Minn.								
Lucky Wheat Red Dog	G.	16.00	3.50	58.00	....	....	4.00	
Federal Mill	F.	16.99	**2.96**	65.02	3.63	11.40	....	
Lockport, N. Y.								

Brand and Manufacturer		Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
		Protein	Fat	Carbo-hydrates	Ash	Mois-ture	Crude Fiber	
XXX Comet Northwestern Consolidated Milling Co. Minneapolis, Minn.	G.	16.00	4.00	54.00	....	....	4.00	Red dog wheat flour.
	F.	18.78	**3.69**	63.05	2.50	11.98	....	
Pillsbury's XX Daisy Pillsbury Flour Mills Co. Minneapolis, Minn.	G.	16.00	4.00	62.00	....	....	4.00	Wheat red dog.
	F.	18.17	4.63	61.48	4.91	10.81	....	
Wheat Red Dog Flour George Urban Milling Co. Buffalo, N. Y.	G.	15.00	4.00	50.00	....	....	4.00	
	F.	16.99	3.76	65.22	2.63	11.40	....	
Washburn's Gold Medal Hard Wheat Adrian Red Dog Washburn-Crosby Co. Buffalo, N. Y.	G.	16.00	3.50	64.00	....	....	4.00	Hard wheat red dog.
	F.	18.08	3.70	63.87	2.54	11.81	....	
WHEAT SHORTS								
Hunter Wheat Shorts Frank B. Ham & Co. Toronto, Canada	G.	16.00	5.00	52.00	....	....	8.00	
	F.	**15.04**	**4.43**	64.76	4.07	11.70	....	
Jersey Wheat Gray Shorts Rodney Milling Co. Kansas City, Mo.	G.	17.00	4.50	61.00	....	....	6.00	Wheat grey shorts, mill run wheat screenings.
	F.	17.76	4.44	62.17	5.32	10.31	....	

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